# COANTE FABRICATION MANUAL

For all collections

coante.com

# FORE WORD

This manual includes important information and recommendations about transportation, storage, handling, processing, installation of **"Coante Mineral Surfaces."**

Processes of Coante application are basically very similar to natural stone. In this manual we designated additional techniques and principles required for Coante. Therefore, this manual does not describe all stages of processing in detail.

Information and recommendations in this manual target combining perfection of **"Coante Mineral Surfaces."** with your expertise and skills to meet highest customer expectations.

# TECHNICAL PROPERTIES

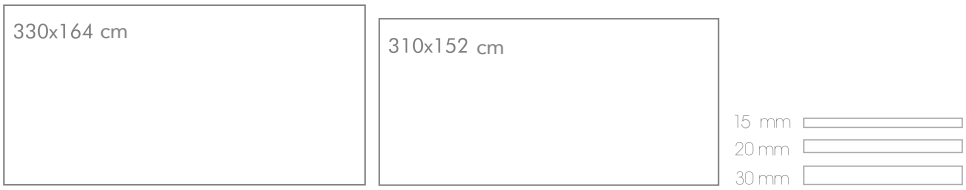
| Test Name | Standard | Unit | Test Results |
|---|---|---|---|
| **Physical Properties** | | | |
| Appearance | - | - | Solid single – various colors slab |
| Odor | - | - | Odorless |
| Water Absorption | EN 14617-1 | % | < 0,05 W4 |
| Apparent Density | EN 14617-1 | g/cm³ | 2-2,5 |
| **Durability Properties** | | | |
| Flexural Strength | EN 14617-2 | MPa | >35 F4 |
| Impact Resistance | EN 14617-9 | joule | >3.4 (20 mm) |
| Abrasion Resistance | EN 14617-4 | mm | ≥28 A4 |
| Slip Resistance | EN 14231 | PVT | dry 41 / wet 19 |
| Mohs Hardness | EN 101 /ASTM C1895 | mohs | 7 |
| Bond Strength - adhesion for resin adhesives | EN 12003 | MPa | 4,20 |
| Determination of resistance to fixing (dowel hole) | EN 14617-8 | N/mm | 92 (875N d1 avg: 9,5 mm, bA avg.: 27 mm) |
| Electric Resistivity | EN 14617-13 | Ωm | $2{,}40 \times 10^{12}$ |
| **Chemical Properties** | | | |
| Chemical Resistance | EN 14617-10 | - | C4 |
| **Thermal Properties** | | | |
| Linear Thermal Expansion | EN 14617-11 | 1/△°C | $19{,}7 * 10^{-6}$ |
| Thermal Shock Resistance | EN 14617-6 | % | >94 |
| Freeze and Thaw Resistance | EN 14617-5 | % | >90 |
| **Safety Properties** | | | |
| Fire Reaction | EN 13501-1 | - | B ff-s1 (B fl-s1) |

# PHYSICAL PROPERTIES

| Slab Weights | Thinkness | | |
|---|---|---|---|
| Dimensions | 1.5 cm | 2 cm | 3 cm |
| 310X152 cm | 145 kg | 235 kg | 352 kg |
| 330X164 cm | 166 kg | 270 kg | 397 kg |

Weight information is approximate and may slightly vary

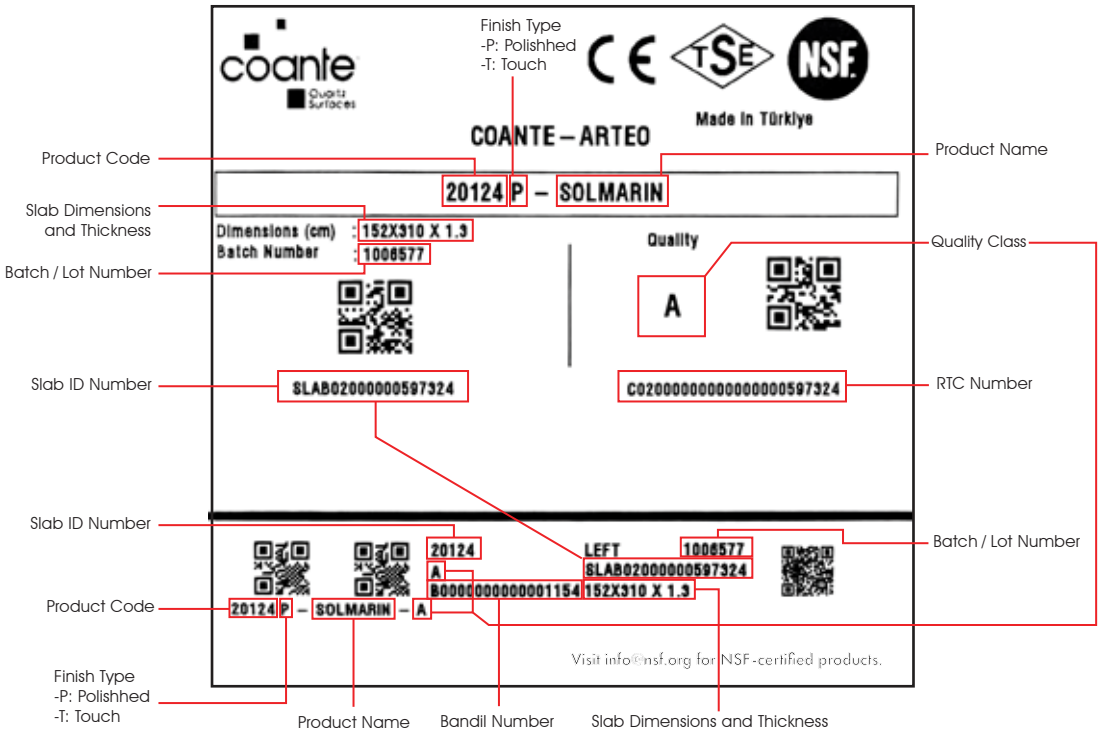
## Slab Dimension and Thickness Options

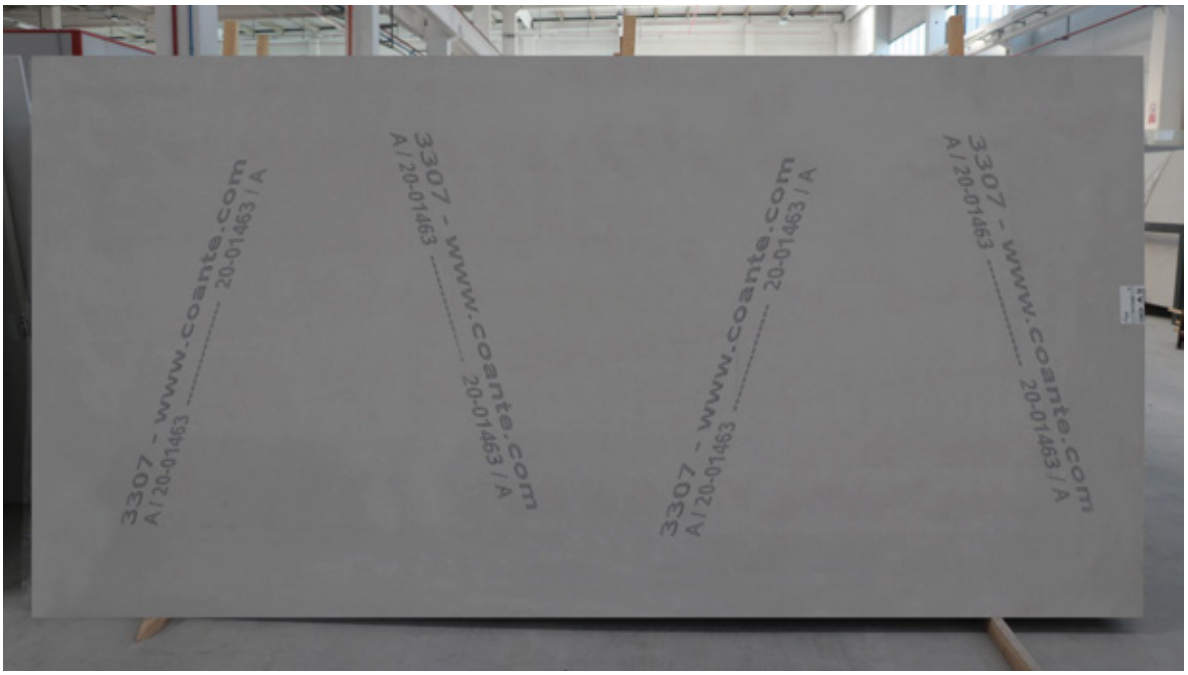


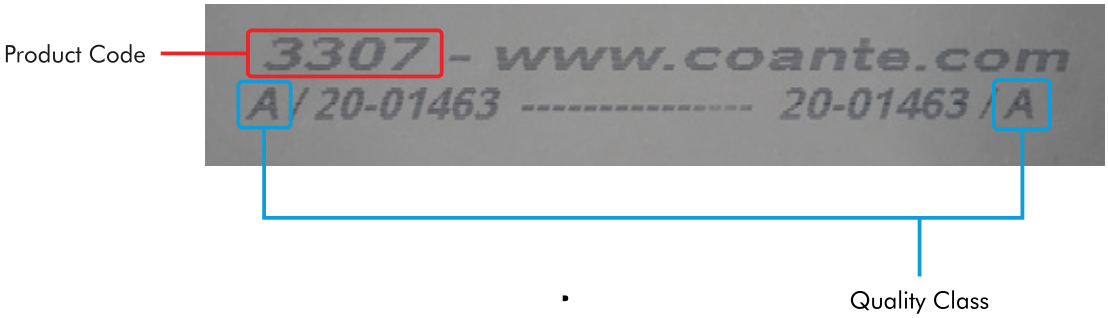

**Warpage Tolerance:** 2 mm in width, 2,5 mm in length, 3 mm in diagonal
**Thickness Tolerance:** +/- 1,5 mm in all thicknesses

## Product information :

Some important information about the product is placed on the back side of the slabs and on the product label






# HEALTH AND SAFETY GUIDELINES

While handling, fabricating or installing always comply with local health and safety law and regulations.

Follow the manuals and instructions of manufacturers of the tools and equipment you use. Keep them maintained in top condition.

During storage, handling and lifting the slabs keep a safe distance.

Always keep slabs secured during storage, handling and transportation.

Use your personal protective equipment. Safety glasses, proper gloves and safety shoes shall be worn all the times. Safety ear plugs are required in the fabrication shop or during fabrication at job sites.

Coante dust contains silica which may cause heavy irritation and harm to respiratory tract, nose, throat and lungs. Never dry cut, shape or polish Coante. Always use wet tools to reduce airborne particles. During processing always wear a dust mask and provide sufficient ventilation in the work place.

**For further information please see Coante Safety Data Sheet on page 16**

# STORAGE AND HANDLING OF SLABS

Coante slabs are best loaded/unloaded with forklifts or overhead cranes equipped with special attachments, clamps or straps. Always comply with manufacturers instructions and related regulations. Make sure that forklifts and cranes are properly maintained, and operated by trained staff only.

Weight of Coante slabs differ with size and thickness. Please refer to chart on page 2 to determine your equipment's lifting capabilities.

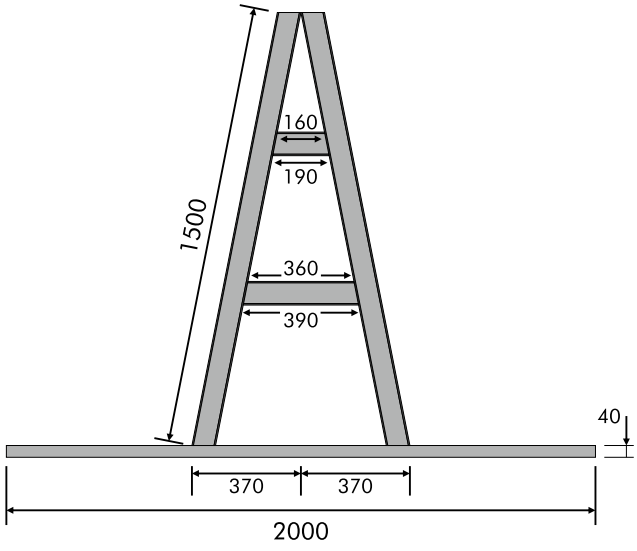
Handle slabs either singularly or in multiples of two. Multiple slabs have to be handled face to face or back to back.

Slabs must be stored in a way to prevent warpage. A-frames or slab racks are the best tools for storage. Improper racks or storage may cause warping in slabs.

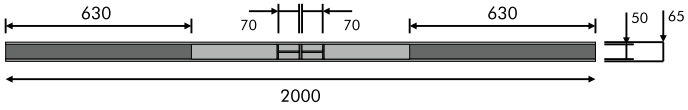
Slabs must be stocked with a 7°-15° angle in vertical.

For short term storage, which does not exceed one week, slabs must be supported by minimum two beams with 150 cm height and at a distance of 180 cm apart. Slabs must be centrally placed on racks to have equal distance from beams to edges on both sides.

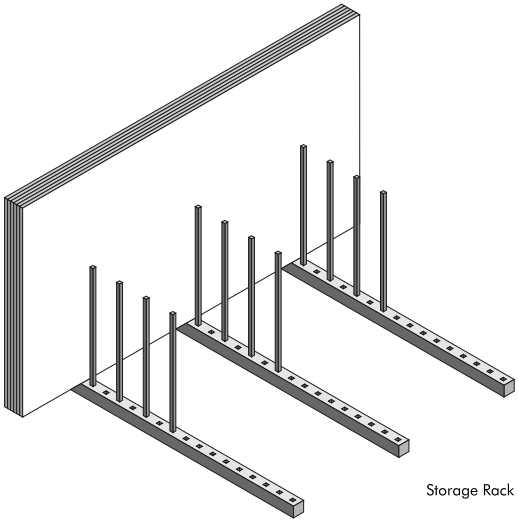
(DRAWING 1): A-FRAME AND STORAGE RACKS




A-Frame Side View




A-Frame Top View



Storage Rack

All dimensions are in milimeters (mm)

Long term storage, exceeding one week, must be on racks that support the slabs minimum at three spots, preferably in vertical and in horizontal. Ideal rack drawing is provided below.

Store the slabs face to face, with no gap in between.

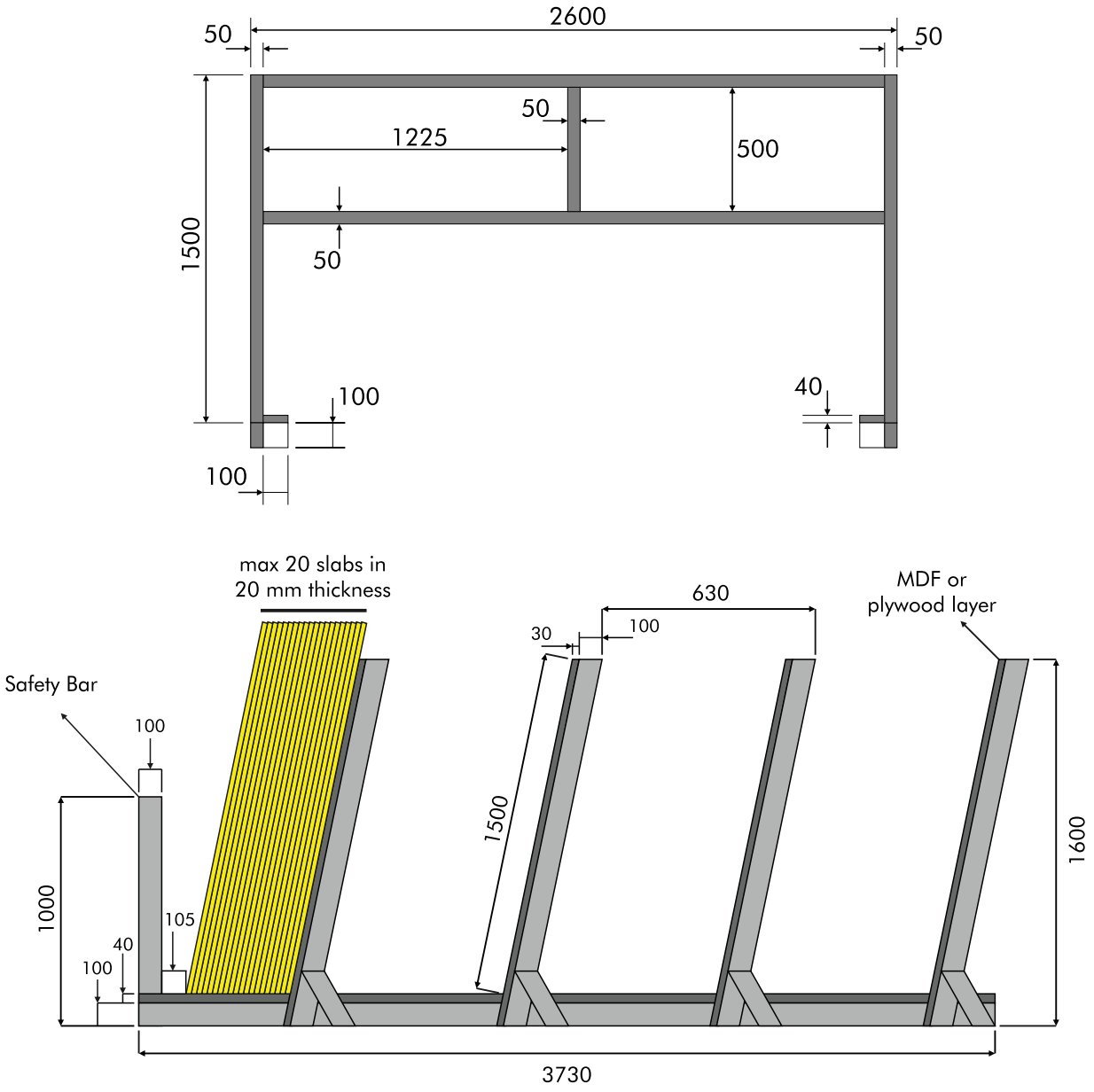
Do not stack more than 20 slabs in 2 cm or 15 slabs in 3 cm on top of each other.

Storage must be done in a closed area or shade to protect slabs from dust, rain or direct sunlight. Exposure to direct sunlight may cause discoloration or fading in slabs.

Storage temperature should not exceed 55° C.

A-frames are the best options for transportation of slabs. Place slabs vertically on A-frames, face to face and without gap in between. Use straps to secure slabs to the A-frame and to each other.

(DRAWING 2): FULL SUPPORT STORAGE RACKS




All dimensions are in milimeters (mm)

# GENERAL PRINCIPLES

Although invisible, Coante expands and shrinks with thermal change. Therefore, it needs to be applied with flexible adhesives. Polyester based adhesives must be used to glue Coante pieces to each other, while 100% silicone-based adhesives must be preferred to glue Coante to other materials. Rigid adhesives (such as cement based ones or natural stone adhesives) must never be used with Coante.

Countertops must be strongly supported on cabinets. Where needed support strips with minimum 4 cm width must be used to provide sufficient support. These strips can be made of flexible but strong materials such as Coante slabs or marine plywood. Strips made of rigid materials, i.e. marble or granite, will generate stress on Coante countertops and may cause cracks.

At every point where countertop changes direction there should be a seam. Do not plan L shape countertops in one piece.

All chemicals that will be used together for fabrication and installation (such as polyester based adhesives, hardners and pigments) should be made by same manufacturer and recommended to be used together.

Inner corners (of holes, cutouts or inner corners of "L" or "U" shape countertops) must always be radiused. Always drill holes at the corners and then cut with perimeter intact at the corner. Do not cross cut holes, or perform square cuts. Square internal angles will generate stress points in slabs and may cause cracking.

To avoid overheating in slabs, drilling, cutting, grinding, polishing processes must be done with water cooled equipment and tools only.

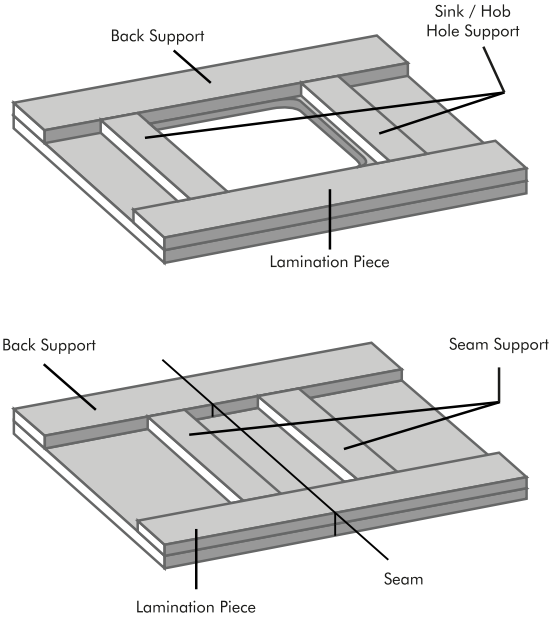
Always use saw blades/ discs, core/drill bits, polishing pads made for or recommended by their manufacturers for processing quartz surfaces.

Do not try to change factory made surface on the slabs by re-polishing, sanding, grinding, honing, sealing. These processes will irreversibly harm the surface of the slab.

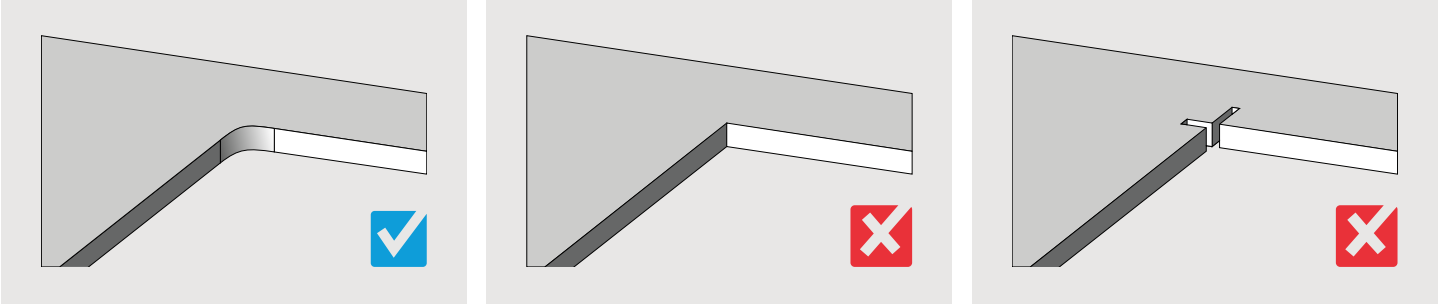
Do not use scorching pads, steel wool, detergents containing micro granules or chemicals with PH level higher than 8.5 or lower than 5 on Coante surfaces.

Always use heat insulation layers between the countertop and under counter ovens, bain-maries, steam tables,coolers or similar heat radiating units.

(DRAWING 3): SUPPORT STRIPS




(DRAWING 4): INNER CORNER CUTTING DETAIL



# FABRICATION AND INSTALLATION

## Inspection of Slabs and Planning

Remove the protective film on the surface of the slab. Clean the surface if necessary.

Check the surface quality under sufficient light in different angles.

Slabs with different production dates may have shade differences. If you need multiple slabs for the job, always use slabs with same batch number. In any case, check shade consistency of multiple slabs under the same lighting conditions and side by side.

Coante slabs has a 1,5 mm thickness tolerance. Check thickness consistency of multiple slabs you will seam together.

Coante slabs have random granule and pattern distribution, which may cause variations within and between slabs. These variations are more visible in marble vein patterns. Consider possible variations for your planning.

Improper storage may cause warpage in slabs. Warped slabs may not set on cutting table properly. This may lower cutting quality or cracking during cutting. Warpage must be checked with a full length straight-edge when slab is horizontally placed on a fully supporting, strong and straight base.

Do not start cutting unless you confirm quality, sufficiency and consistency of slabs.

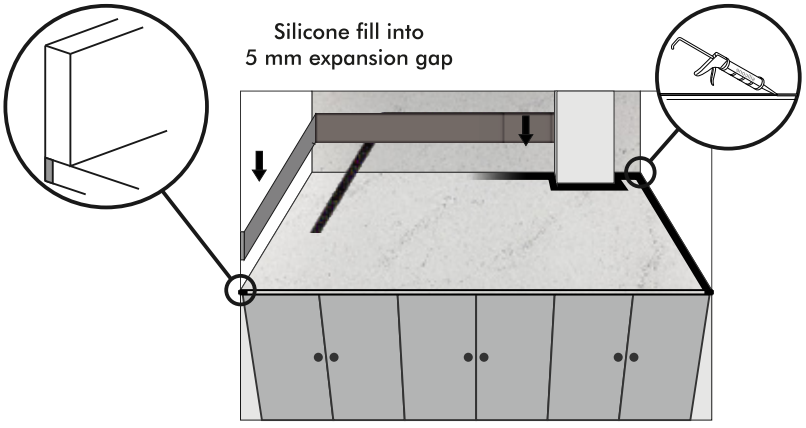
## Measurement

Ensure that cabinets are securely set and affixed to each other and the wall behind.

Check if the tops of cabinets are flat and level. Substrates supporting the countertop should be level and flat within 1.0 mm in 3000 mm. Cabinets that are not flat will cause stress points in the countertop and may cause cracks.

For full backsplash installations also check if the walls between upper and lower cabinets are flat and plumb.

(DRAWING 5): THERMAL EXPANSION GAP




Leave 5 mm gap in all directions between the countertop and walls. This gap is necessary for thermal expansion.

Decide for positions of sink and hob holes. Minimum distance between front and back edges of countertop and the holes must be 5 cm.

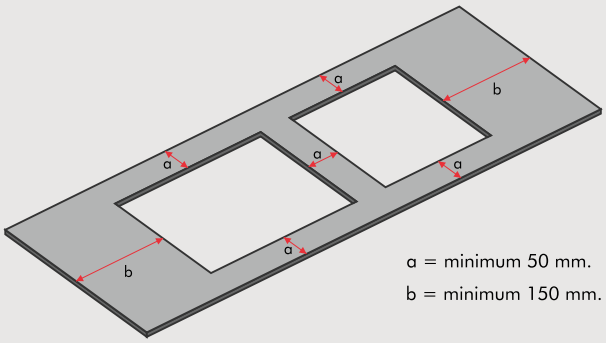
Minimum distance between sink/hob cutouts and seams must be 15 cm . If this is inevitable, place seams on cabinet frame and support with strips.

Always leave 4 mm thermal expansion gaps in all directions of sink and hob holes.

Avoid seam locations on dishwasher openings.

When you make your planning consider the access of the pieces to installation area.

(DRAWING 6): MINIMUM DISTANCES FOR SINK AND HOB CUTOUTS




# FABRICATION

## Cutting

All cutting, grinding, polishing processes must be done only with wet tools. Use continuous plenty of water to cool the slab. Dry cutting and polishing generate excess heat which may damage structure of the slabs and cause hairline cracks, and also airborne silica dust.

Always use saw blades, discs, core/drill bits made for or recommended by their manufacturers for processing quartz surfaces. Use your tools in the speed and direction recommended by manufacturers. Always use sharp blades which are in good condition. Worn disks or missing teeth / segments will cause chipping and saw marks on edges. Such imperfections decrease edge and seam quality.

Your cutting table has to be flat to support the slab at all points. Bumps or gaps on the table negatively effect cutting quality, and may cause cracking during cutting. Weekly check the flatness of your cutting table with a minimum 3-meter straight edge, and immediately fix problems.

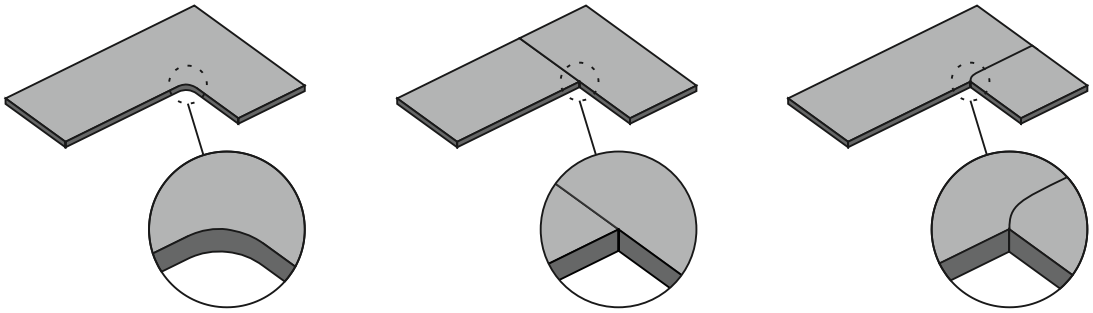
Start cutting with longer edge of the slab. Cutting should always start from the edges, never start cutting in the center of the slab.

L shape countertops should be cut in two pieces with a seam.

For inner corners first drill a hole at the corners with a radius. Avoid damaging the perimeter of the hole at the very corner with cutting disc. This radius at the corner is necessary to prevent stress. Cross cut corners with 90° angle may crack due to excess stress. Please refer to Drawing 9 for inner corners and minimum radiuses required.

L shape countertops composed of two pieces may be seamed straight or with 10 mm radius.

(DRAWING 7): L SHAPE COUNTERTOPS



## Sink / Hob Cutouts

Decide for layout of the cutout.

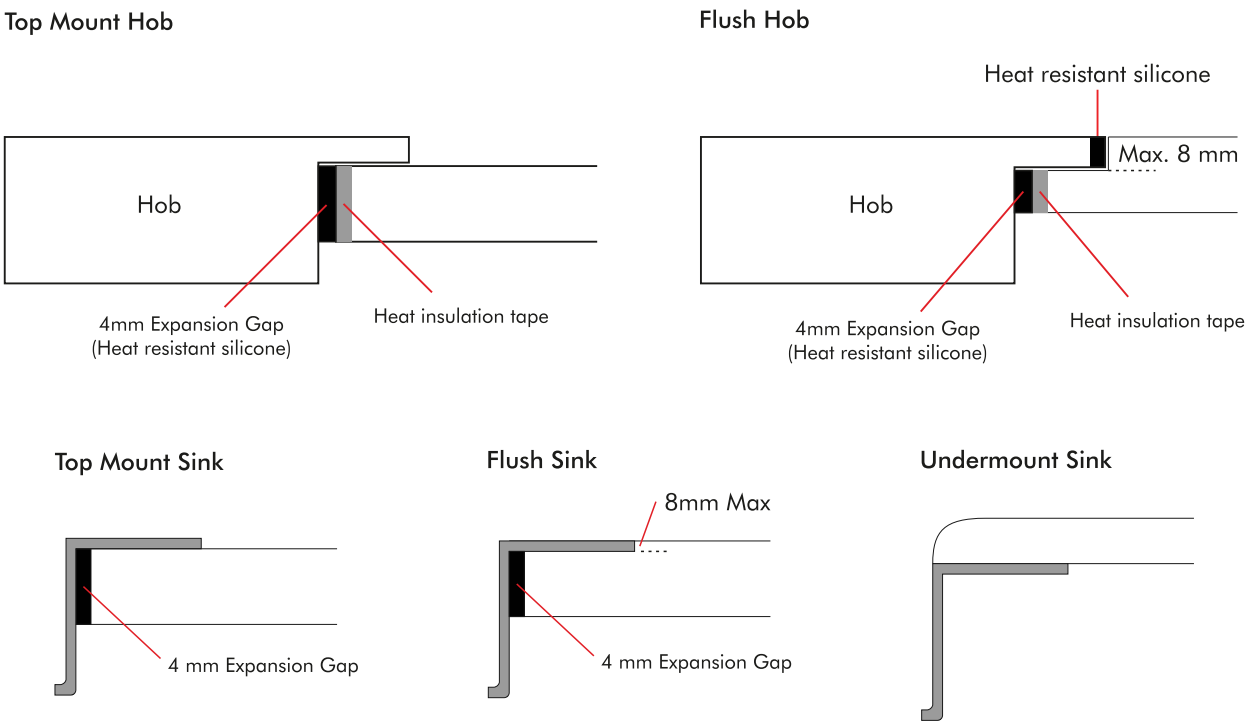
Drill 15 mm holes at the corners of hob cutouts, and 20 mm holes for sink cutouts. Perform straight cuts to connect the holes. Do not cross cut the hole with cutting disc. Inner radius of the hole must remain intact. This radius is necessary to prevent stress at the corners of cutouts. Cross cut corners with 90° angle may crack due to stress.

Leave 4 mm thermal expansion gap between the appliance and edge of the cutout. Support all edges of the cutout underneath with support strips made of Coante or marine plywood. (Drawing 3)

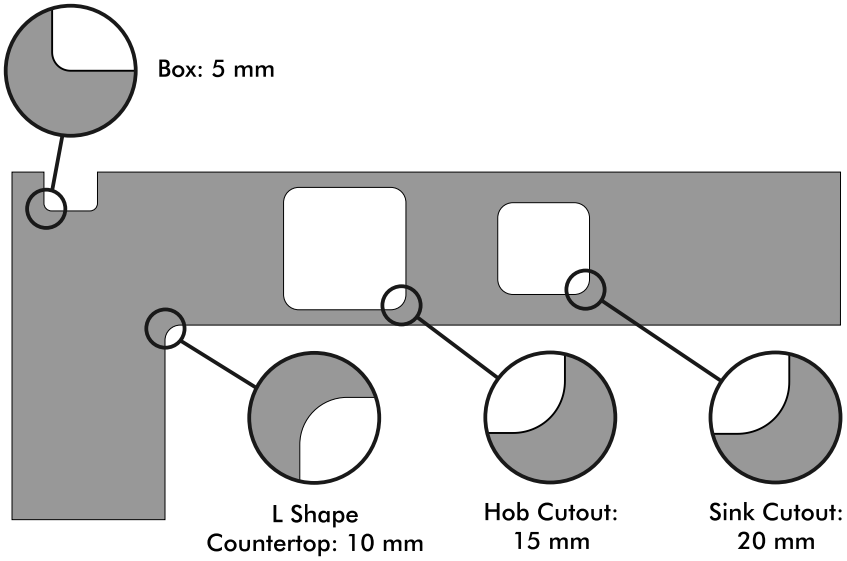
Polish the edges of undermount sink cutouts as described on page 12. Do not leave the upper edges of cutouts square (with 90° angle). Square edges are prone to chipping due to impacts. Pencil round edges will be strong and aesthetic solutions.

Depth of grooves for flushed hobs and sinks must not exceed 8 mm.

(DRAWING 8): SINK AND HOB INSTALLATIONS



(DRAWING 9): INNER CORNERS AND MINIMUM RADIUSES




## Lamination / Double Thickness

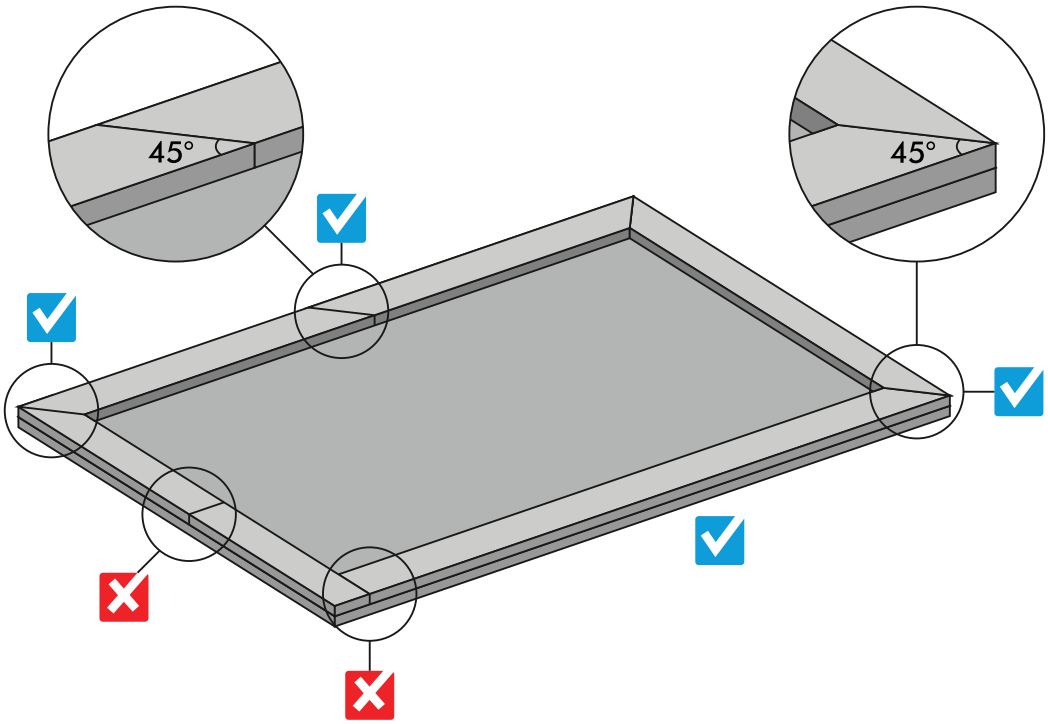
Coante produces 15, 20 and 30 mm thick slabs. Lamination is a method of building thicker edge profiles than the slab itself. Lamination is made by fixing stripes of the countertop material under the front edge of the countertop.

For best color and shade match, lamination pieces should be cut from the same slab with the countertop.

Use full length lamination pieces. If you need to make seams in lamination piece, always make 45° seams in order to reduce stress.

Seam lamination pieces with 45° mitered end cuts at the corners. 90° seam of lamination pieces cause stress points and may result cracking.

(DRAWING 10): LAMINATION PIECES



Smoothen the joint surfaces, clean dust and debris. Grind grooves on the joint surfaces to let more adhesive set between pieces.

Color the polyester adhesive to match the slab. Apply a layer of adhesive on entire surface of the joint.

Glue the pieces and clamp them every 10 cm. After the glue dries, you can clean and polish the edges.

## Mitered Edges

Mitered edges are very aesthetic edge types that allow the pattern on the top of the countertop flow through the apron.

For perfect color and pattern match cut the countertop and the apron pieces from the same slab, preferably from adjacent areas.

Cut the pieces with 45° for maximum strength. Pieces must be perfectly parallel and joint surfaces must be clean and flush.

Upper edges of pieces are very weak and prone to chipping. Do not cut less than 45° angles as this will even make the pieces weaker and lower the seam quality.

Clean the joint surfaces from dust and debris. Grind grooves on the joint surfaces to allow more adhesive. Color the polyester adhesive to match the slab and thoroughly distribute on the entire joint surface.Fix the pieces till the adhesive dries and then clean and finish the edges.

For an aesthetic result, seam at the top of edge has to be as narrow as possible. As 90° square edges are prone to chipping, 2-3 mm beveled or 3 mm pencil round edges are best edge profile options.

(DRAWING 11): MITERED EDGE

## Edge Polishing

Prior to polishing, make sure that edges are clean, free of dust and debris.

For best result, use top quality tools and diamond peds, which are made for quartz surface processing.

Edge polishing must be done with wet tools only and with continuous supply of water. Dry polishing generates extreme heat on the slab, which undermines the physical structure of the slab, forms micro fissures, leading to chipping and discoloration where applied.

In order to reach requested polish level we recommend using quality diamond pads with below sequence:

**Polished surfaces:** 50, 100, 200, 400, 800, 1500, 3000 grits

**Silk (honed) surfaces:** 100, 200, 400 grits

**Touch (leathered) surfaces:** It is extremely difficult to match factory made Touch surfaces with hand tools, and results are irreversible. Thus, mitered edges are recommended type for such surfaces.

Use lower RPM on polishers over 1000 grit diamond pads.

Even if our above recommendations are followed, results will vary depending on quality and performance of tools and pads used, personal skills and expertise. Therefore, we recommend you to observe the progress of your work and set your own rules for the best results.

Do not buff on Coante surfaces.

Do not polish, hone, grind, sand the factory made surface or do not apply impregnator sealers on Coante surfaces.

## Seams

Planning the seam locations is very important for an aesthetic and strong countertop, and efficient slab utilization.

Seams must be located on cabinet frame or must be fully supported by plywood on top of the cabinets. If this is not possible they must be supported with strips made of Coante slabs or marine plywood on both sides.

Seams must not be located over dishwashers.

Minimum distance between cutouts and seams must be 15 cm. If a closer seam is inevitable, seam must be placed on cabinet frame and supported with strips.

Seam surfaces must be smooth and free of dust and debris. Grind grooves on the seam surfaces to allow more space for adhesive. Set the pieces and check level of the pieces and seam quality.

In order to adjust height of seaming pieces use wedges or spacer shims. Never grind, sand or polish surface of slabs at seams to level pieces.

# INSTALLATION

## Packing and Transportation of Countertop Pieces

Countertop sections are heavy, bulky and fragile.

Use a sturdy base for safe transportation of countertop pieces. A metal A-frame with both faces covered with plywood is a good option.

Place the pieces on the A-frame face to face or back to back, without gaps in between. Pieces should stand on rough edges and polished edges be at the top.

Secure pieces to each other and to the A frame with straps. Straps should be tight enough to prevent pieces move during transit, but at the same time should not be too tight to put excess load on fragile sections like cutouts.

Care should be taken to protect straps from sharp edges of pieces.

Use rags or a soft layer to protect surface of pieces from metals, back sides of other pieces or any object that may damage the surface.

Allocate sufficient number of workers to move pieces to the job site. Extra care should be taken to support fragile sections of pieces, such as sink / hob cutouts.

## Preparing The Substrate

Make sure that cabinets are securely and strongly fixed to each other and the wall behind.

Cabinets and legs must be strong enough to support the countertop. Upper frame of cabinets must be flat, plumb and level to within 1.0 mm in 3000 mm.

Application surfaces must be dry, free from dust, debris and chemicals.

Always use heat insulation layers between the countertop and under counter ovens, bain-maries, steam tables, coolers or similar heat radiating units.

## Installation

Leave 5 mm thermal expansion gap between the countertop and walls in all directions. This gap is necessary for thermal expansion. (Drawing 5)

Contertop must be supported front to back every 60 cm with cabinet frames and/or strips.

Seams, dishwasher or oven openings must also be supported with strips.

Place the sections in their positions and check the result. Make necessary adjustments to a levelled seam before gluing. Use colored polyester based adhesive to match the slab. Color the glue to match the slab. Apply the glue thoroughly on the seam surfaces. Use a professional seam setter to make the seam as narrow as possible and pieces perfectly levelled.

We recommend use of professional seam setting tools for a perfectly levelled and narrow seam.

Never polish, sand or grind seams to level pieces. Such practices will irreversibly harm the countertop.

Use 100% silicone to fix the countertop to substrate. Apply the silicone in dabs with 20-25 cm apart. Use more silicone at corners, seam locations or around cutouts.

Under no condition use rigid adhesives (such as concrete based or marble-granite adhesives) on or mechanical fasteners (such as nails, screws, bolts) into Coante slabs.

Install sinks and hobs in accordance with manufacturer's instructions. All sink installations must be fully supported with support rails independent of the countertop. Sink / hob cutouts must be supported on all edges.

Use 100% silicone to provide insulation around sinks. Use heat resistant silicone and heat insulation tapes around hobs.

Do not apply sealers or impregnators on Coante surfaces. Remove all residues adhesives with a soft rag or plastic putty knife. Clean the surface with acetone, isopropyl alcohol or ethanol and rinse thoroughly.

Countertops should be strongly supported over corner cabinets.

Countertops that are not set on cabinets on both sides sides (such as on the side of pantries) should be supported with strips that will be attached on the back wall and additional cabinet panels on the side.

If you need to drill faucet holes into the countertop, make sure that you leave enough material around the hole to provide strength.

### Supporting Overhangs

Overhangs must be supported as below:

| 2 cm Thick Slabs | 2 cm Thick Slabs (Supported With 1.5 cm Plywood) | 3 cm Thick Slabs | Support Requirement |
|---|---|---|---|
| Less than 20 cm | Less than 30 cm | Less than 40 cm | No support needed |
| Between 20-40 cm | Between 30-50 cm | Between 40-60 cm | Metal brackets at 60 cm intervals |
| Bigger than 40 cm | Bigger than 50 cm | Bigger than 60 cm | Panels, posts, columns or legs at 60 cm intervals |

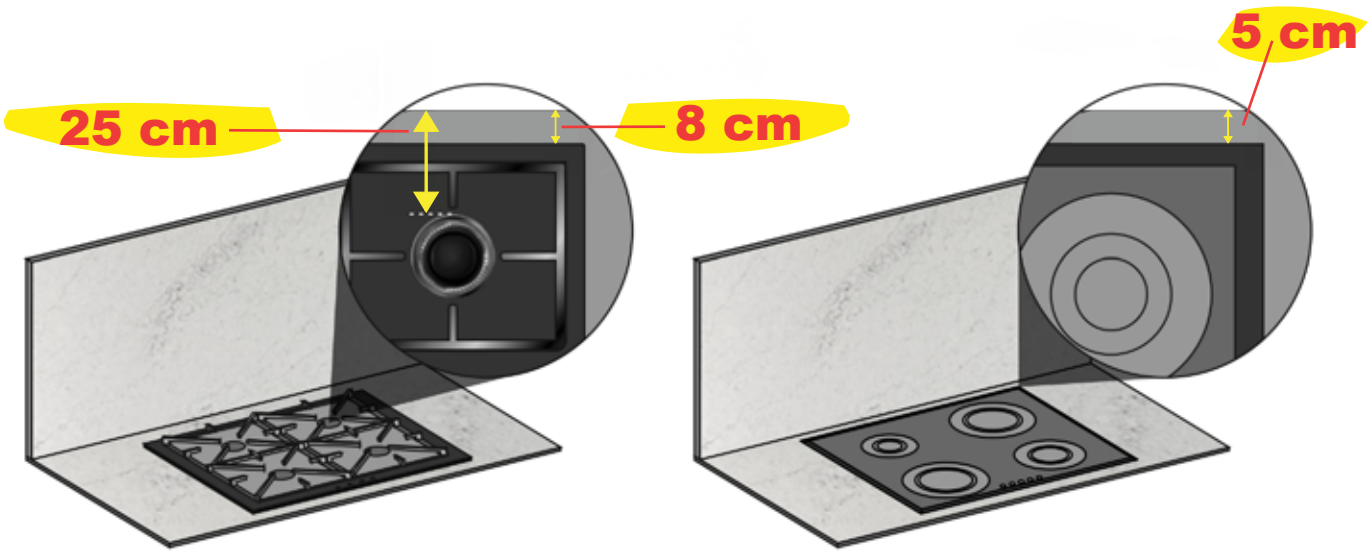
## Back Splashes

Coante backsplashes are maintenance free, aesthetic applications that beautifully match the countertop with minimum joints. As they are installed by the same installation team on the same day, Coante backsplashes may save time for home owners.

For color and shade match, cut countertop and backsplash from the same slab or use slabs with same batch number.

Walls must be flat and plumb, free from dust, debris and chemicals.

**(DRAWING 12): HOB AND BACKSPLASH DISTANCES**

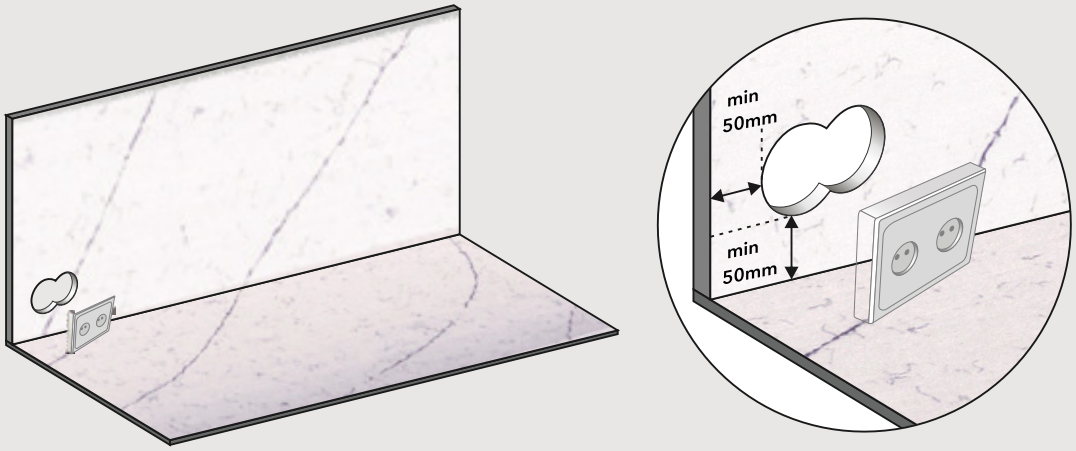


Minimum distance between the backsplash and back edge of the cooktop must be 5 cm for induction cooktops and 8 cm for gas cooktops. Minimum distance between the periphery of the gas burner and the backsplash must be 25 cm.

Do not cut "L" shape pieces on back splashes, as they will not tolerate thermal expansion.

Inner corners of holes on the backsplash must be radiused. For plug holes, you may drill one big circular hole or alternatively open intersecting multiple holes. Do not open rectangular holes with 90° angle, do not cross cut.

(DRAWING 13): CUTOUTS AND MINIMUM DISTANCES




Minimum distance from the holes to the edge of backsplash and between the holes must be 50 mm.

Use 100% silicone to fix backsplash on the back wall.

For joints, first set the pieces to their position without glue to see the result. Make necessary adjustments if needed. Color the glue to match the slab. Clean the seam surface and apply the glue thoroughly. Use a professional seam setter to make the seam as narrow as possible and pieces perfectly levelled.

For insulation, use 100% silicone between the backsplash and countertop.

Remove all residues adhesives with a soft rag or plastic putty knife. Clean the surface with acetone, isopropyl alcohol or ethanol and rinse thoroughly.

# CLEANING

Clean easily using only mild soap and warm water with a soft cloth.

# SURFACE COMPARISON

| | | Quartz Surfaces | Natural Stone (Granite/Marble) | Solid Surfaces /Laminate | Acrylaic Surfaces | Ceramic Surfaces |
|---|---|---|---|---|---|---|
|  | Scratch Resistance | ✓ | ✓ | | | ✓ |
|  | Flexural Strength | ✓ | | | | |
|  | Breaking Rupture Strength | ✓ | | | ✓ | |
|  | Chemical Resistance | ✓ | | | ✓ | ✓ |
|  | Liquid Impermeability (Non-porous) | ✓ | | ✓ | ✓ | ✓ |
|  | Stain Proof | ✓ | | | ✓ | ✓ |
|  | Hygiene | ✓ | | | ✓ | ✓ |
|  | Maintainability | ✓ | | | | ✓ |
|  | Heat | ✓ | ✓ | | | ✓ |
|  | Color Stability | ✓ | | ✓ | ✓ | ✓ |

# Coante Quartz Surfaces

## Safety Data Sheet

In accordance with the number 28848 date 11.12.2013 related on the information form for preparations and distribution of hazardous materials

Date of issue: 03/11/2025 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Solid

Trade name : Coante Quartz Surfaces

### nt identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Quartz surfacing designed for use indoors,particularly kitchen countertops and bathroom vanities, flooring,cladding and other similar uses

### 1.3. Details of the supplier of the safety data sheet

Ermaş Madencilik Sanayi Turizm Ticaret Anonim Şirketi (Coante Quartz Surfaces)
Paşapınarı Neighborhood Commercial Area 4th Street No:14 Menteşe

Muğla-Türkiye

T: +90 252 225 51 52 Fax: +90 252 242 37 48

www.coante.com e-mail: info@coante.com

### 1.4. Emergency telephone number

Ermaş Madencilik Sanayi Turizm Ticaret Anonim Şirketi (Coante Quartz Surfaces)
Paşapınarı Neighborhood Commercial Area 4th Street No:14 Menteşe

Muğla-Türkiye

T: +90 252 225 51 52 Fax: +90 252 242 37 48

www.coante.com e-mail: info@coante.com

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.**

Skin Irrit. 2 Category 2 :H315

Skin Sens. 1 Category 1 :H317

Aquatic Chronic 3 Category 3 :H412

Adverse physicochemical, human health and environmental effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

**Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.**

**Pictogram** :

GHS07 GHS08 GHS09

**Signal word (SEA)** : Warning

**Hazard statements (SEA)** :

H315:Causes skin irritation.
H317:May cause an allergic skin reaction.
H335:May cause respiratory irritation.
H350:May cause cancer.
H372:Causes damage to organs through prolonged or repeated exposure (inhalation).
H412:Harmful to aquatic life with long lasting effects.

**Precautionary statements (SEA)**

P201 : Obtain special instructions before use.
P202 :Do not handle until all safety precautions have been read and understood.
P260:Do not breathe dust or fumes.
P264:Wash hands and face thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.
P271:Use only outdoors or in a well-ventilated area.
P272 : Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280:Wear protective gloves, clothing, eye and face protection.
P284: [In case of inadequate ventilation] wear respiratory protection.
P285:In case of inadequate ventilation, wear respiratory protection.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P314 – Get medical advice/attention if you feel unwell.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
362 + P364 :Take off contaminated clothing and wash it before reuse.

**Disposal** : P501:Dispose of contents/container in accordance with local regulations.

### 2.3. Other hazards

**Other hazards not contributing to the classification**

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013. |
|---|---|---|---|
| Quartz, Quartzite, Silis kumu<br>Cristobalite | (CAS No 14808-60-7<br>(CAS No) 14464-46-1 | 0-93 | Stot Re. 1 (H372)<br>Carc.1A, (H350) |
| Glass chips | (CAS No) 14808-60-7 | 0-93 | Not determined |
| Mirror chips | (CAS No) 65997-17-3 | 0-45 | Not determined |
| Other silicate minerals | - | 0-93 | Not determined |
| Titanium Dioxide, pigment | (CAS No) 13463-67-7 | 0-4 | Carc. 2 (H351) |
| Inorganic oxide high temperature pigments | - | 0-4 | Eye Irrit. 2 (H319) / STOT SE 3 (H335) |
| Unsaturated polyester resin (Styrene) | Stiren (Cas No) 100-42-5 | 7-16 | Flam. Liq. 3 (H226) / Acute Tox. 4 (H332) / Skin Irrit. 2 (H315) / Eye Irrit. 2 (H319) / STOT SE 3 (H335) |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : If you feel unwell, call a poison center or doctor / physician.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection"".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls : Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Color : Various

Odor : Odorless

Odor threshold : No data available

pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : $1{,}958*10^{-5}$ °C

| | | |
|---|---|---|
| Freezing point | : | 1,637**10$^{-5}$ °C |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Vapor pressure | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Relative Density | : | 2-2,5 kg/m$^3$ |
| Solubility | : | No data available |
| Log Pow | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive properties | : | No data available |
| Coefficient of Thermal Expansion | : | 19–20 × 10$^{-6}$ / °C |
| Bending Stress | : | > 40 MPa |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is not reactive under normal conditions of use, storage and transport

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Not available under recommended storage and handling conditions (see section 7)

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No hazardous decomposition products are expected under normal conditions of storage and use.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| **Quartz (14808-60-7)** | | |
|---|---|---|
| **Region / Authority** | **Limit Type** | **Limit Value** |
| USA ACGIH | ACGIH TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| USA ACGIH | ACGIH chemical category | A2 – Suspected Human Carcinogen |
| USA OSHA/ CAL OSHA | OSHA PEL (TWA) (mg/m$^3$) | 50 µg/m$^3$ |
| USA NIOSH | NIOSH REL (TWA) (mg/m$^3$) | 0.05 mg/m$^3$ (respirable dust) |
| USA IDLH | US IDLH (mg/m$^3$) | 50 mg/m$^3$ (respirable dust) |
| Alberta | OEL TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| British Columbia | OEL TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| Manitoba | OEL TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| New Brunswick | OEL TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| Newfoundland & Labrador | OEL TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| Nova Scotia | OEL TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| Nunavut | OEL TWA (mg/m$^3$) | 0.05 mg/m$^3$ (respirable fraction) |
| Northwest Territories | OEL TWA (mg/m$^3$) | 0.05 mg/m$^3$ (respirable fraction) |
| Ontario | OEL TWA (mg/m$^3$) | 0.1 mg/m$^3$ |

| | | |
|---|---|---|
| Prince Edward Island | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Quebec | VEMP (mg/m³) | 0.1 mg/m³ (respirable dust) |
| Saskatchewan | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Yukon | OEL TWA (mg/m³) | 0.1 mg/m³ |
| Mexico | NOM-010-STPS-2014 | 0.025 mg/m³ (respirable dust) |
| **Cristobalite (14464-46-1)** | | |
| **Region / Authority** | **Limit Type** | **Limit Value** |
| USA ACGIH | ACGIH TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| USA ACGIH | ACGIH chemical category | A2 – Suspected Human Carcinogen |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 50 µg/m³ |
| USA NIOSH | NIOSH REL (TWA) (mg/m³) | 0.05 mg/m³ (respirable dust) |
| USA IDLH | US IDLH (mg/m³) | 25 mg/m³ (respirable dust) |
| Alberta | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| British Columbia | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Manitoba | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| New Brunswick | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Newfoundland & Labrador | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Nova Scotia | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Nunavut | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Northwest Territories | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Ontario | OEL TWA (mg/m³) | 0.1 mg/m³ |
| Prince Edward Island | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Quebec | VEMP (mg/m³) | 0.05 mg/m³ (respirable dust) |
| Saskatchewan | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Yukon | OEL TWA (mg/m³) | 0.1 mg/m³ |
| Mexico | NOM-010-STPS-2014 | 0.025 mg/m³ (respirable dust) |

**Occupational Exposure Limits in mg/m³ 8 hours TWA - Respirable dust - in EU 271 + Norway & Switzerland**

| Country/Authority | Inert dust | Quartz (q) | Cristobalite (c) | Tridymite (t) |
|---|---|---|---|---|
| Austria / I | 6 | 0.15 | 0.15 | 0.15 |
| Belgium / II | 3 | 0.1 | 0.05 | 0.05 |
| Bulgaria / III | 4 | 0.07 | 0.07 | 0.07 |
| Cyprus / IV | / | 10k/Q² | - | - |
| Czech Republic / V | - | 0.1 | 0.1 | 0.1 |
| Denmark / VI | 5 | 0.1 | 0.05 | 0.05 |
| Estonia | - | 0.1 | 0.05 | 0.05 |
| Finland / VII | - | 0.2 | 0.1 | 0.1 |
| France / VIII | - | 5 or 25 k/q | - | - |
| France / IX | 5 | 0.1 | 0.05 | 0.05 |
| Germany / X | 3 | β | - | - |
| Greece / XI | 5 | 0.1 | 0.05 | 0.05 |
| Hungary | - | 0.15 | 0.1 | 0.15 |
| Ireland / XII | 4 | 0.05 | 0.05 | 0.05 |
| Italy / XIII | 3 | 0.025 | 0.025 | 0.025 |
| Lithuania / XIV | 10 | 0.1 | 0.05 | 0.05 |
| Luxembourg / XV | 6 | 0.15 | 0.15 | 0.15 |
| Malta / XVI | - | - | - | - |
| Netherlands / XVII | 5 | 0.075 | 0.075 | 0.075 |
| Norway / XVIII | 5 | 0.1 | 0.05 | 0.05 |
| Poland | - | 0.3 | 0.3 | 0.3 |
| Portugal / XIX | 5 | 0.025 | 0.025 | 0.025 |
| Romania / XX | 10 | 0.1 | 0.05 | 0.05 |

| | | |
|---|---|---|
| Prince Edward Island | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Quebec | VEMP (mg/m³) | 0.1 mg/m³ (respirable dust) |
| Saskatchewan | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Yukon | OEL TWA (mg/m³) | 0.1 mg/m³ |
| Mexico | NOM-010-STPS-2014 | 0.025 mg/m³ (respirable dust) |
| **Cristobalite (14464-46-1)** | | |
| **Region / Authority** | **Limit Type** | **Limit Value** |
| USA ACGIH | ACGIH TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| USA ACGIH | ACGIH chemical category | A2 – Suspected Human Carcinogen |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 50 µg/m³ |
| USA NIOSH | NIOSH REL (TWA) (mg/m³) | 0.05 mg/m³ (respirable dust) |
| USA IDLH | US IDLH (mg/m³) | 25 mg/m³ (respirable dust) |
| Alberta | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| British Columbia | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Manitoba | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| New Brunswick | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Newfoundland & Labrador | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Nova Scotia | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Nunavut | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Northwest Territories | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Ontario | OEL TWA (mg/m³) | 0.1 mg/m³ |
| Prince Edward Island | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Quebec | VEMP (mg/m³) | 0.05 mg/m³ (respirable dust) |
| Saskatchewan | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Yukon | OEL TWA (mg/m³) | 0.1 mg/m³ |
| Mexico | NOM-010-STPS-2014 | 0.025 mg/m³ (respirable dust) |

**Occupational Exposure Limits in mg/m³ 8 hours TWA - Respirable dust - in EU 271 + Norway & Switzerland**

| Country/Authority | Inert dust | Quartz (q) | Cristobalite (c) | Tridymite (t) |
|---|---|---|---|---|
| Austria / I | 6 | 0.15 | 0.15 | 0.15 |
| Belgium / II | 3 | 0.1 | 0.05 | 0.05 |
| Bulgaria / III | 4 | 0.07 | 0.07 | 0.07 |
| Cyprus / IV | / | 10k/Q² | - | - |
| Czech Republic / V | - | 0.1 | 0.1 | 0.1 |
| Denmark / VI | 5 | 0.1 | 0.05 | 0.05 |
| Estonia | - | 0.1 | 0.05 | 0.05 |
| Finland / VII | - | 0.2 | 0.1 | 0.1 |
| France / VIII | - | 5 or 25 k/q | - | - |
| France / IX | 5 | 0.1 | 0.05 | 0.05 |
| Germany / X | 3 | β | - | - |
| Greece / XI | 5 | 0.1 | 0.05 | 0.05 |
| Hungary | - | 0.15 | 0.1 | 0.15 |
| Ireland / XII | 4 | 0.05 | 0.05 | 0.05 |
| Italy / XIII | 3 | 0.025 | 0.025 | 0.025 |
| Lithuania / XIV | 10 | 0.1 | 0.05 | 0.05 |
| Luxembourg / XV | 6 | 0.15 | 0.15 | 0.15 |
| Malta / XVI | - | - | - | - |
| Netherlands / XVII | 5 | 0.075 | 0.075 | 0.075 |
| Norway / XVIII | 5 | 0.1 | 0.05 | 0.05 |
| Poland | - | 0.3 | 0.3 | 0.3 |
| Portugal / XIX | 5 | 0.025 | 0.025 | 0.025 |
| Romania / XX | 10 | 0.1 | 0.05 | 0.05 |

| | | | | |
|---|---|---|---|---|
| Slovakia | - | 0.1 | 0.1 | 0.1 |
| Slovenia | - | 0.15 | 0.15 | 0.15 |
| Spain / XXI | 3 | 0.1 | 0.05 | 0.05 |
| Sweden / XXII | 5 | 0.1 | 0.05 | 0.05 |
| Switzerland / XXIII | 6 | 0.15 | 0.15 | 0.15 |
| United Kingdom / XXIV | 4 | 0.1 | 0.1 | 0.1 |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Aquatic acute : Not classified

Aquatic chronic : Not classified

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| SS-Super Iron | |
|---|---|
| Bioaccumulative potential | No additional information available |

### 12.4. Mobility in soil

| SS-Super Iron | |
|---|---|
| Mobility in soil | No additional information available |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Eliminate the contents container in accordance with the seperation instructions of the approved collector

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| 14.1. UN number | | | | |
| Not regulated for transport | | | | |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No<br>Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available | | | | |

### 14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. National regulations

This product doesn't contain any substances that is controlled or prohibited for use according to the Regulation for Reduction of Ozone Depleting Substances published in the Official Journal numbered 27052 on November 12, 2008.

## SECTION 16: Other information

Abbreviations and acronyms:

| | |
|---|---|
| ADR | Accord Européen Relatif Au Transport International Des Marchandises Dangereuses Par Rout |
| CLP | Classification, Labelling and Packaging |
| IATA | International Air Transport Association |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| SDS | Safety Data Sheet |

Data sources : Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Full text of H-phrases

| | |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |
| H350 | May cause cancer. |
| H372 | Causes damage to organs through prolonged or repeated exposure (inhalation). |
| H412 | Harmful to aquatic life with long lasting effects |

Safety Data Sheet author's Name : Berk SANDIKCIOĞLU
Certificate number : TÜV/01.221.04
Certificate valid until : 18/01/2027
Contact information : info@besacevre.com / +90 0554 615 44 24

SDS Turkey

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*

# Coante Mineral Surfaces

## Safety Data Sheet

In accordance with the number 28848 date 11.12.2013 related on the information form for preparations and distribution of hazardous materials

Date of issue: 03/11/2025 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Solid

Trade name : Coante Mineral Surfaces

### nt identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Quartz surfacing designed for use indoors,particularly kitchen countertops and bathroom vanities, flooring,cladding and other similar uses

### 1.3. Details of the supplier of the safety data sheet

Ermaş Madencilik Sanayi Turizm Ticaret Anonim Şirketi (Coante Quartz Surfaces)
Paşapınarı Neighborhood Commercial Area 4th Street No:14 Menteşe

Muğla-Türkiye

T: +90 252 225 51 52 Fax: +90 252 242 37 48

www.coante.com e-mail: info@coante.com

### 1.4. Emergency telephone number

Ermaş Madencilik Sanayi Turizm Ticaret Anonim Şirketi (Coante Quartz Surfaces)
Paşapınarı Neighborhood Commercial Area 4th Street No:14 Menteşe

Muğla-Türkiye

T: +90 252 225 51 52 Fax: +90 252 242 37 48

www.coante.com e-mail: info@coante.com

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Skin Irrit. 2 Category 2 :H315

Skin Sens. 1 Category 1 :H317

Aquatic Chronic 3 Category 3 :H412

Adverse physicochemical, human health and environmental effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

**Pictogram** :

GHS07 GHS08 GHS09

**Signal word (SEA)** : Warning

**Hazard statements (SEA)** :

H315:Causes skin irritation.
H317:May cause an allergic skin reaction.
H335:May cause respiratory irritation.
H350:May cause cancer.
H372:Causes damage to organs through prolonged or repeated exposure (inhalation).
H412:Harmful to aquatic life with long lasting effects.

**Precautionary statements (SEA)**

P201 : Obtain special instructions before use.
P202 :Do not handle until all safety precautions have been read and understood.
P260:Do not breathe dust or fumes.
P264:Wash hands and face thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.
P271:Use only outdoors or in a well-ventilated area.
P272 : Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280:Wear protective gloves, clothing, eye and face protection.
P284: [In case of inadequate ventilation] wear respiratory protection.
P285:In case of inadequate ventilation, wear respiratory protection.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P314 – Get medical advice/attention if you feel unwell.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
362 + P364 :Take off contaminated clothing and wash it before reuse.

**Disposal** : P501:Dispose of contents/container in accordance with local regulations.

### 2.3. Other hazards

**Other hazards not contributing to the classification**

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013. |
|---|---|---|---|
| Quartz, Quartzite, Silis kumu<br>Cristobalite | (CAS No) 14808-60-7<br>(CAS No) 14464-46-1 | 0-93 | Stot Re. 1 (H372)<br>Carc.1A, (H350) |
| Glass chips | (CAS No) 14808-60-7 | 0-93 | Not determined |
| Mirror chips | (CAS No) 65997-17-3 | 0-45 | Not determined |
| Other silicate minerals | - | 0-93 | Not determined |
| Titanium Dioxide, pigment | (CAS No) 13463-67-7 | 0-4 | Carc. 2 (H351) |
| Inorganic oxide high temperature pigments | - | 0-4 | Eye Irrit. 2 (H319) / STOT SE 3 (H335) |
| Unsaturated polyester resin (Styrene) | Stiren (Cas No) 100-42-5 | 7-16 | Flam. Liq. 3 (H226) / Acute Tox. 4 (H332) / Skin Irrit. 2 (H315) / Eye Irrit. 2 (H319) / STOT SE 3 (H335) |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : If you feel unwell, call a poison center or doctor / physician.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection"".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls : Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Color : Various

Odor : Odorless

Odor threshold : No data available

pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : $1{,}958*10^{-5}$ °C

| | | |
|---|---|---|
| Freezing point | : | 1,637**10$^{-5}$ °C |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Vapor pressure | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Relative Density | : | 2-2,5 kg/m$^3$ |
| Solubility | : | No data available |
| Log Pow | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive properties | : | No data available |
| Coefficient of Thermal Expansion | : | 19–20 × 10$^{-6}$ / °C |
| Bending Stress | : | > 40 MPa |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is not reactive under normal conditions of use, storage and transport

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Not available under recommended storage and handling conditions (see section 7)

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No hazardous decomposition products are expected under normal conditions of storage and use.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| **Quartz (14808-60-7)** | | |
|---|---|---|
| **Region / Authority** | **Limit Type** | **Limit Value** |
| USA ACGIH | ACGIH TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| USA ACGIH | ACGIH chemical category | A2 – Suspected Human Carcinogen |
| USA OSHA/ CAL OSHA | OSHA PEL (TWA) (mg/m$^3$) | 50 µg/m$^3$ |
| USA NIOSH | NIOSH REL (TWA) (mg/m$^3$) | 0.05 mg/m$^3$ (respirable dust) |
| USA IDLH | US IDLH (mg/m$^3$) | 50 mg/m$^3$ (respirable dust) |
| Alberta | OEL TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| British Columbia | OEL TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| Manitoba | OEL TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| New Brunswick | OEL TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| Newfoundland & Labrador | OEL TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| Nova Scotia | OEL TWA (mg/m$^3$) | 0.025 mg/m$^3$ (respirable particulate matter) |
| Nunavut | OEL TWA (mg/m$^3$) | 0.05 mg/m$^3$ (respirable fraction) |
| Northwest Territories | OEL TWA (mg/m$^3$) | 0.05 mg/m$^3$ (respirable fraction) |
| Ontario | OEL TWA (mg/m$^3$) | 0.1 mg/m$^3$ |

| | | |
|---|---|---|
| Prince Edward Island | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Quebec | VEMP (mg/m³) | 0.1 mg/m³ (respirable dust) |
| Saskatchewan | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Yukon | OEL TWA (mg/m³) | 0.1 mg/m³ |
| Mexico | NOM-010-STPS-2014 | 0.025 mg/m³ (respirable dust) |
| **Cristobalite (14464-46-1)** | | |
| **Region / Authority** | **Limit Type** | **Limit Value** |
| USA ACGIH | ACGIH TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| USA ACGIH | ACGIH chemical category | A2 – Suspected Human Carcinogen |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 50 µg/m³ |
| USA NIOSH | NIOSH REL (TWA) (mg/m³) | 0.05 mg/m³ (respirable dust) |
| USA IDLH | US IDLH (mg/m³) | 25 mg/m³ (respirable dust) |
| Alberta | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| British Columbia | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Manitoba | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| New Brunswick | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Newfoundland & Labrador | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Nova Scotia | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Nunavut | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Northwest Territories | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Ontario | OEL TWA (mg/m³) | 0.1 mg/m³ |
| Prince Edward Island | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Quebec | VEMP (mg/m³) | 0.05 mg/m³ (respirable dust) |
| Saskatchewan | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Yukon | OEL TWA (mg/m³) | 0.1 mg/m³ |
| Mexico | NOM-010-STPS-2014 | 0.025 mg/m³ (respirable dust) |

**Occupational Exposure Limits in mg/m³ 8 hours TWA - Respirable dust - in EU 271 + Norway & Switzerland**

| Country/Authority | Inert dust | Quartz (q) | Cristobalite (c) | Tridymite (t) |
|---|---|---|---|---|
| Austria / I | 6 | 0.15 | 0.15 | 0.15 |
| Belgium / II | 3 | 0.1 | 0.05 | 0.05 |
| Bulgaria / III | 4 | 0.07 | 0.07 | 0.07 |
| Cyprus / IV | / | 10k/Q² | - | - |
| Czech Republic / V | - | 0.1 | 0.1 | 0.1 |
| Denmark / VI | 5 | 0.1 | 0.05 | 0.05 |
| Estonia | - | 0.1 | 0.05 | 0.05 |
| Finland / VII | - | 0.2 | 0.1 | 0.1 |
| France / VIII | - | 5 or 25 k/q | - | - |
| France / IX | 5 | 0.1 | 0.05 | 0.05 |
| Germany / X | 3 | β | - | - |
| Greece / XI | 5 | 0.1 | 0.05 | 0.05 |
| Hungary | - | 0.15 | 0.1 | 0.15 |
| Ireland / XII | 4 | 0.05 | 0.05 | 0.05 |
| Italy / XIII | 3 | 0.025 | 0.025 | 0.025 |
| Lithuania / XIV | 10 | 0.1 | 0.05 | 0.05 |
| Luxembourg / XV | 6 | 0.15 | 0.15 | 0.15 |
| Malta / XVI | - | - | - | - |
| Netherlands / XVII | 5 | 0.075 | 0.075 | 0.075 |
| Norway / XVIII | 5 | 0.1 | 0.05 | 0.05 |
| Poland | - | 0.3 | 0.3 | 0.3 |
| Portugal / XIX | 5 | 0.025 | 0.025 | 0.025 |
| Romania / XX | 10 | 0.1 | 0.05 | 0.05 |

| | | | | |
|---|---|---|---|---|
| Slovakia | - | 0.1 | 0.1 | 0.1 |
| Slovenia | - | 0.15 | 0.15 | 0.15 |
| Spain / XXI | 3 | 0.1 | 0.05 | 0.05 |
| Sweden / XXII | 5 | 0.1 | 0.05 | 0.05 |
| Switzerland / XXIII | 6 | 0.15 | 0.15 | 0.15 |
| United Kingdom / XXIV | 4 | 0.1 | 0.1 | 0.1 |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Aquatic acute : Not classified

Aquatic chronic : Not classified

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| SS-Super Iron | |
|---|---|
| Bioaccumulative potential | No additional information available |

### 12.4. Mobility in soil

| SS-Super Iron | |
|---|---|
| Mobility in soil | No additional information available |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Eliminate the contents container in accordance with the seperation instructions of the approved collector

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| 14.1. UN number | | | | |
| Not regulated for transport | | | | |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No<br>Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available | | | | |

### 14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. National regulations

This product doesn't contain any substances that is controlled or prohibited for use according to the Regulation for Reduction of Ozone Depleting Substances published in the Official Journal numbered 27052 on November 12, 2008.

## SECTION 16: Other information

Abbreviations and acronyms:

| | |
|---|---|
| ADR | Accord Européen Relatif Au Transport International Des Marchandises Dangereuses Par Rout |
| CLP | Classification, Labelling and Packaging |
| IATA | International Air Transport Association |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| SDS | Safety Data Sheet |

Data sources : Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Full text of H-phrases

| | |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |
| H350 | May cause cancer. |
| H372 | Causes damage to organs through prolonged or repeated exposure (inhalation). |
| H412 | Harmful to aquatic life with long lasting effects |

Safety Data Sheet author's Name : Berk SANDIKCIOĞLU
Certificate number : TÜV/01.221.04
Certificate valid until : 18/01/2027
Contact information : info@besacevre.com / +90 0554 615 44 24

SDS Turkey

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*

# Coante Arteo Surfaces

## Safety Data Sheet

In accordance with the number 28848 date 11.12.2013 related on the information form for preparations and distribution of hazardous materials

Date of issue: 03/11/2025 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Solid

Trade name : Coante Arteo Surfaces

### nt identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Quartz surfacing designed for use indoors,particularly kitchen countertops and bathroom vanities, flooring,cladding and other similar uses

### 1.3. Details of the supplier of the safety data sheet

Ermaş Madencilik Sanayi Turizm Ticaret Anonim Şirketi (Coante Quartz Surfaces)
Paşapınarı Neighborhood Commercial Area 4th Street No:14 Menteşe

Muğla-Türkiye

T: +90 252 225 51 52 Fax: +90 252 242 37 48

www.coante.com e-mail: info@coante.com

### 1.4. Emergency telephone number

Ermaş Madencilik Sanayi Turizm Ticaret Anonim Şirketi (Coante Quartz Surfaces)
Paşapınarı Neighborhood Commercial Area 4th Street No:14 Menteşe

Muğla-Türkiye

T: +90 252 225 51 52 Fax: +90 252 242 37 48

www.coante.com e-mail: info@coante.com

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.**

Skin Irrit. 2 Category 2 :H315

Skin Sens. 1 Category 1 :H317

Aquatic Chronic 3 Category 3 :H412

Adverse physicochemical, human health and environmental effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

**Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.**

**Pictogram** :

GHS07 GHS08 GHS09

**Signal word (SEA)** : Warning

**Hazard statements (SEA)** :

H315:Causes skin irritation.
H317:May cause an allergic skin reaction.
H335:May cause respiratory irritation.
H350:May cause cancer.
H372:Causes damage to organs through prolonged or repeated exposure (inhalation).
H412:Harmful to aquatic life with long lasting effects.

**Precautionary statements (SEA)**

P201 : Obtain special instructions before use.
P202 :Do not handle until all safety precautions have been read and understood.
P260:Do not breathe dust or fumes.

P264:Wash hands and face thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271:Use only outdoors or in a well-ventilated area.
P272 : Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280:Wear protective gloves, clothing, eye and face protection.
P284: [In case of inadequate ventilation] wear respiratory protection.
P285:In case of inadequate ventilation, wear respiratory protection.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P314 – Get medical advice/attention if you feel unwell.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
362 + P364 :Take off contaminated clothing and wash it before reuse.

**Disposal** : P501:Dispose of contents/container in accordance with local regulations.

### 2.3. Other hazards

**Other hazards not contributing to the classification**

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013. |
|---|---|---|---|
| Quartz, Quartzite, Silis kumu<br>Cristobalite | (CAS No) 14808-60-7<br>(CAS No) 14464-46-1 | 0-93 | Stot Re. 1 (H372)<br>Carc.1A, (H350) |
| Glass chips | (CAS No) 14808-60-7 | 0-93 | Not determined |
| Mirror chips | (CAS No) 65997-17-3 | 0-45 | Not determined |
| Other silicate minerals | - | 0-93 | Not determined |
| Titanium Dioxide, pigment | (CAS No) 13463-67-7 | 0-4 | Carc. 2 (H351) |
| Inorganic oxide high temperature pigments | - | 0-4 | Eye Irrit. 2 (H319) / STOT SE 3 (H335) |
| Unsaturated polyester resin (Styrene) | Stiren (Cas No) 100-42-5 | 7-16 | Flam. Liq. 3 (H226) / Acute Tox. 4 (H332) / Skin Irrit. 2 (H315) / Eye Irrit. 2 (H319) / STOT SE 3 (H335) |
| UV Armour | (CAS No) 475645-84-2 | 0,01 – 0,05% | Skin Irrit. 2 (H315) / Eye Irrit. 2 (H319) / Aquatic Chronic 3 (H412) |
| ISONIK B-K BLACK HLF | - | 0,02% | Skin Irrit. 2 – H315<br>Skin Sens. 1 – H317<br>Aquatic Chronic 3 – H412 |
| ISONIK B-K CYAN | - | 0,02% | Skin Irrit. 2 – H315<br>Skin Sens. 1 – H317<br>Aquatic Chronic 3 – H412 |
| ISONIK B-K LIGHT CYAN | - | 0,02% | Skin Irrit. 2 – H315<br>Skin Sens. 1 – H317<br>Aquatic Chronic 3 – H412 |
| ISONIK B-K LIGHT MAGENTA HD | - | 0,02% | Skin Irrit. 2 – H315<br>Skin Sens. 1 – H317<br>Aquatic Chronic 3 – H412 |
| ISONIK B-K MAGENTA HD | - | 0,02% | Skin Irrit. 2 – H315<br>Skin Sens. 1 – H317<br>Aquatic Chronic 3 – H412 |
| ISONIK B-K TOTAL BLACK | - | 0,02% | Skin Irrit. 2 – H315<br>Skin Sens. 1 – H317<br>Aquatic Chronic 3 – H412 |
| ISONIK B-K YELLOW | - | 0,02% | Skin Irrit. 2 – H315<br>Skin Sens. 1 – H317<br>Aquatic Chronic 3 – H412 |

| Name | Product identifier | % | Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013. |
|---|---|---|---|
| TRANSPRIMER Component A | - | 0,01 – 0,05% | Skin Irrit. 2 – H315<br>Skin Sens. 1 – H317<br>Aquatic Chronic 3 – H412 |
| TRANSPRIMER Component B | - | 0,0001 – 0,0005% | Skin Irrit. 2 – H315<br>Skin Sens. 1 – H317<br>Aquatic Chronic 3 – H412 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : If you feel unwell, call a poison center or doctor / physician.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection"".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

| | | |
|---|---|---|
| Hygiene measures | : | Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

### 7.2. Conditions for safe storage, including any incompatibilities

| | | |
|---|---|---|
| Storage conditions | : | Store in a well-ventilated place. Keep cool. |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

| | | |
|---|---|---|
| Appropriate engineering controls | : | Ensure good ventilation of the work station. |
| Hand protection | : | Protective gloves |
| Eye protection | : | Safety glasses |
| Skin and body protection | : | Wear suitable protective clothing |
| Respiratory protection | : | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Environmental exposure controls | : | Avoid release to the environment. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Solid |
| Color | : | Various |
| Odor | : | Odorless |
| Odor threshold | : | No data available |
| pH | : | No data available |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Melting point | : | $1{,}958*10^{-5}$ °C |
| Freezing point | : | $1{,}637**10^{-5}$ °C |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Vapor pressure | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Relative Density | : | 2-2,5 kg/m$^3$ |
| Solubility | : | No data available |
| Log Pow | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive properties | : | No data available |
| Coefficient of Thermal Expansion | : | 19–20 × $10^{-6}$ / °C |
| Bending Stress | : | > 40 MPa |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is not reactive under normal conditions of use, storage and transport

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Not available under recommended storage and handling conditions (see section 7)

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No hazardous decomposition products are expected under normal conditions of storage and use.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| **Quartz (14808-60-7)** | | |
|---|---|---|
| **Region / Authority** | **Limit Type** | **Limit Value** |
| USA ACGIH | ACGIH TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| USA ACGIH | ACGIH chemical category | A2 – Suspected Human Carcinogen |
| USA OSHA/ CAL OSHA | OSHA PEL (TWA) ($mg/m^3$) | 50 $\mu g/m^3$ |
| USA NIOSH | NIOSH REL (TWA) ($mg/m^3$) | 0.05 $mg/m^3$ (respirable dust) |
| USA IDLH | US IDLH ($mg/m^3$) | 50 $mg/m^3$ (respirable dust) |
| Alberta | OEL TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| British Columbia | OEL TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| Manitoba | OEL TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| New Brunswick | OEL TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| Newfoundland & Labrador | OEL TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| Nova Scotia | OEL TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| Nunavut | OEL TWA ($mg/m^3$) | 0.05 $mg/m^3$ (respirable fraction) |
| Northwest Territories | OEL TWA ($mg/m^3$) | 0.05 $mg/m^3$ (respirable fraction) |
| Ontario | OEL TWA ($mg/m^3$) | 0.1 $mg/m^3$ |
| Prince Edward Island | OEL TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| Quebec | VEMP ($mg/m^3$) | 0.1 $mg/m^3$ (respirable dust) |
| Saskatchewan | OEL TWA ($mg/m^3$) | 0.05 $mg/m^3$ (respirable fraction) |
| Yukon | OEL TWA ($mg/m^3$) | 0.1 $mg/m^3$ |
| Mexico | NOM-010-STPS-2014 | 0.025 $mg/m^3$ (respirable dust) |

| **Cristobalite (14464-46-1)** | | |
|---|---|---|
| **Region / Authority** | **Limit Type** | **Limit Value** |
| USA ACGIH | ACGIH TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| USA ACGIH | ACGIH chemical category | A2 – Suspected Human Carcinogen |
| USA OSHA | OSHA PEL (TWA) ($mg/m^3$) | 50 $\mu g/m^3$ |
| USA NIOSH | NIOSH REL (TWA) ($mg/m^3$) | 0.05 $mg/m^3$ (respirable dust) |
| USA IDLH | US IDLH ($mg/m^3$) | 25 $mg/m^3$ (respirable dust) |
| Alberta | OEL TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| British Columbia | OEL TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| Manitoba | OEL TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| New Brunswick | OEL TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| Newfoundland & Labrador | OEL TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |
| Nova Scotia | OEL TWA ($mg/m^3$) | 0.025 $mg/m^3$ (respirable particulate matter) |

| | | |
|---|---|---|
| Nunavut | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Northwest Territories | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Ontario | OEL TWA (mg/m³) | 0.1 mg/m³ |
| Prince Edward Island | OEL TWA (mg/m³) | 0.025 mg/m³ (respirable particulate matter) |
| Quebec | VEMP (mg/m³) | 0.05 mg/m³ (respirable dust) |
| Saskatchewan | OEL TWA (mg/m³) | 0.05 mg/m³ (respirable fraction) |
| Yukon | OEL TWA (mg/m³) | 0.1 mg/m³ |
| Mexico | NOM-010-STPS-2014 | 0.025 mg/m³ (respirable dust) |

**Occupational Exposure Limits in mg/m³ 8 hours TWA - Respirable dust - in EU 271 + Norway & Switzerland**

| Country/Authority | Inert dust | Quartz (q) | Cristobalite (c) | Tridymite (t) |
|---|---|---|---|---|
| Austria / I | 6 | 0.15 | 0.15 | 0.15 |
| Belgium / II | 3 | 0.1 | 0.05 | 0.05 |
| Bulgaria / III | 4 | 0.07 | 0.07 | 0.07 |
| Cyprus / IV | / | 10k/$Q^2$ | - | - |
| Czech Republic / V | - | 0.1 | 0.1 | 0.1 |
| Denmark / VI | 5 | 0.1 | 0.05 | 0.05 |
| Estonia | - | 0.1 | 0.05 | 0.05 |
| Finland / VII | - | 0.2 | 0.1 | 0.1 |
| France / VIII | - | 5 or 25 k/q | - | - |
| France / IX | 5 | 0.1 | 0.05 | 0.05 |
| Germany / X | 3 | β | - | - |
| Greece / XI | 5 | 0.1 | 0.05 | 0.05 |
| Hungary | - | 0.15 | 0.1 | 0.15 |
| Ireland / XII | 4 | 0.05 | 0.05 | 0.05 |
| Italy / XIII | 3 | 0.025 | 0.025 | 0.025 |
| Lithuania / XIV | 10 | 0.1 | 0.05 | 0.05 |
| Luxembourg / XV | 6 | 0.15 | 0.15 | 0.15 |
| Malta / XVI | - | - | - | - |
| Netherlands / XVII | 5 | 0.075 | 0.075 | 0.075 |
| Norway / XVIII | 5 | 0.1 | 0.05 | 0.05 |
| Poland | - | 0.3 | 0.3 | 0.3 |
| Portugal / XIX | 5 | 0.025 | 0.025 | 0.025 |
| Romania / XX | 10 | 0.1 | 0.05 | 0.05 |
| Slovakia | - | 0.1 | 0.1 | 0.1 |
| Slovenia | - | 0.15 | 0.15 | 0.15 |
| Spain / XXI | 3 | 0.1 | 0.05 | 0.05 |
| Sweden / XXII | 5 | 0.1 | 0.05 | 0.05 |
| Switzerland / XXIII | 6 | 0.15 | 0.15 | 0.15 |
| United Kingdom / XXIV | 4 | 0.1 | 0.1 | 0.1 |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Aquatic acute : Not classified

Aquatic chronic : Not classified

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| SS-Super Iron | |
|---|---|
| Bioaccumulative potential | No additional information available |

### 12.4. Mobility in soil

| SS-Super Iron | |
|---|---|
| Mobility in soil | No additional information available |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Eliminate the contents container in accordance with the seperation instructions of the approved collector

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number** | | | | |
| Not regulated for transport | | | | |
| **14.2. UN proper shipping name** | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| **14.3. Transport hazard class(es)** | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| **14.4. Packing group** | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| **14.5. Environmental hazards** | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No<br>Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available | | | | |

### 14.6. Special precautions for user

**- Overland transport**

No data available

**- Transport by sea**

No data available

**- Air transport**

No data available

**- Inland waterway transport**

No data available

**- Rail transport**

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. National regulations

This product doesn't contain any substances that is controlled or prohibited for use according to the Regulation for Reduction of Ozone Depleting Substances published in the Official Journal numbered 27052 on November 12, 2008.

## SECTION 16: Other information

Abbreviations and acronyms:

| | |
|---|---|
| ADR | Accord Européen Relatif Au Transport International Des Marchandises Dangereuses Par Rout |
| CLP | Classification, Labelling and Packaging |
| IATA | International Air Transport Association |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| SDS | Safety Data Sheet |

Data sources : Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Full text of H-phrases

| | |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |
| H350 | May cause cancer. |
| H372 | Causes damage to organs through prolonged or repeated exposure (inhalation). |
| H412 | Harmful to aquatic life with long lasting effects |

Safety Data Sheet author's Name : Berk SANDIKCIOĞLU
Certificate number : TÜV/01.221.04
Certificate valid until : 18/01/2027
Contact information : info@besacevre.com / +90 0554 615 44 24

SDS Turkey

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*

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