

# DUROCK® BASE COAT

## 1. IDENTIFICATION

**Product identifier**

Durock® Base Coat.

**Synonym(s)**

Joint Compound (Powder), Taping Compound, Finishing Compound.

**Recommended use**

Exterior and Interior use.

**Recommended restrictions**

Use in accordance with manufacturer's recommendations.

**Manufacturer / Importer / Supplier / Distributor information/Company name**

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## 2. HAZARD(S) IDENTIFICATION

**Classification of the substance or mixture****Physical hazards**

Not classified.

**Health hazards**

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1

Sensitization, skin Category 1

Carcinogenicity Category 1A

**Environmental hazards**

Not classified.

**GHS label elements, including precautionary statements****Signal word**

Irritant

**Hazard statement**

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause cancer.

**Precautionary statement****Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/ eye protection/face protection.

**Response**

IF exposed or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of water/soap. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Take off contaminated clothing and wash before reuse.

**Storage**

Store locked up.

**Disposal**

Dispose of in accordance with local, state, and federal regulations.

**Other hazards which do not result in classification**

None known.

**Supplemental information**

Not applicable.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

#### Mixtures

Chemical name	CAS number	%
Portland Cement	65997-15-1	<40
Crystalline Silica	14808-60-7	<40
Calcium and Magnesium Hydroxide (Hydrated Lime)	39445-23-3	<10
Vinyl Acetate Polymer	9003-20-7	<10

#### Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in this product is < 0.25%. Exposures to respirable crystalline silica during the normal use of this product must be determined by workplace hygiene testing.

#### Description of necessary first-aid measures

All concentrations are in percent by weight unless ingredient is a gas.

##### Inhalation

Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.

##### Skin contact

Contact with wet or dry product: Wash area with cold running water immediately. Open sores or cuts should be thoroughly flushed and covered with suitable dressings.

##### Eye contact

Dust in eyes: Flush with cold tap water for at least 15 minutes. If irritation persists, seek medical attention immediately.

##### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

##### Most important symptoms/effects, acute and delayed

Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system causing sneezing and/or coughing. May cause allergic skin disorders in sensitive individuals.

##### Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

##### General information

Ensure that medical personnel are aware of the material(s) involved.

#### Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

#### Unsuitable extinguishing media

Not applicable.

#### Specific hazards arising from the chemical

Not a fire hazard.

#### Special protective equipment and precautions for firefighters

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### Firefighting equipment/instructions

Use standard firefighting procedures & consider the hazards of other involved materials.

#### Specific methods

Cool material exposed to heat with water spray and remove it if no risk is involved.

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

For personal protection, see Section 8 of the SDS.

##### For non-emergency personnel

See Section 8 of the SDS for Personal Protective Equipment.

##### For emergency responders

Avoid formation of dust. Use personal protection recommended in Section 8 of the SDS.

#### Methods and materials for containment and cleaning up

Vacuum up the spilled material. Vacuums used for this purpose should be equipped with HEPA filters.

Containers must be labeled. Collect in approved containers and seal securely. For waste disposal, see Section 13 of the SDS.

#### Environmental precautions

Avoid discharge to drains, sewers, and other water systems.

#### Other issues relating to spills and releases

Clean up in accordance with all applicable regulations.

### 4. FIRST-AID MEASURES

### 5. FIRE-FIGHTING MEASURES

### 6. ACCIDENTAL RELEASE MEASURES

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Do not get in eyes and avoid contact with skin and clothing. Wear appropriate personal protective equipment (See Section 8). Avoid inhalation of dust. Minimize dust production when mixing, or opening and closing bags. Use with adequate dust control and local ventilation. Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded. Wash hands thoroughly after handling. Use a non-alkaline soap such as Neutralite Safety Solution or Mason's Hand Rinse.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Avoid contact with acids, water, and moisture.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Control parameters

#### Occupational exposure limits Mexico. Occupational Exposure Limit Values

Components	CAS number	Value
Portland Cement (CAS 65997-15-1)	STEL	20 mg/m <sup>3</sup>
Crystalline Silica (CAS 14808-60-7)	TWA	10 mg/m <sup>3</sup>
	TWA	0.1 mg/m <sup>3</sup>

#### US. ACGIH Threshold Limit Values

Components	CAS number	Value	Form
Portland Cement (CAS 65997-15-1)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
Crystalline Silica (CAS 14808-60-7)	TWA	0.025 mg/m <sup>3</sup>	Respirable fraction.

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Control banding approach

Not available.

### Appropriate engineering controls personal protective equipment

Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear approved safety goggles.

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves.

##### Other

Wear long-sleeved shirts, pants and rubber boots.

### Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

Observe any medical surveillance requirements.

### Thermal hazards

None

### General hygiene considerations

During work avoid kneeling in fresh mortar or concrete wherever possible. If kneeling is absolutely necessary, then appropriate waterproof personal protective equipment must be worn. Do not eat, drink or smoke when working with cement to avoid contact with skin or mouth. Immediately after working with cement or cement-containing materials, workers should wash or shower. Remove contaminated clothing, footwear, watches, etc, and clean thoroughly before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

#### Physical state

Solid.

#### Form

Powder.

#### Color

Gray.

### Odor

Low to no odor.

### Odor threshold

Not applicable.

### pH

> 8

### Melting point/freezing point

Not applicable.

### Initial boiling point and boiling range

Not applicable.

### Flash point

Not applicable.

### Evaporation rate

Not applicable.

### Flammability (solid, gas)

Not applicable.

### Upper/lower flammability or explosive limits

#### Flammability limit - lower (%)

Not applicable.

#### Flammability limit - upper (%)

Not applicable.

#### Explosive limit - lower (%)

Not applicable.

#### Explosive limit - upper (%)

Not applicable.

### Vapor pressure

Not applicable.

### Vapor density

Not applicable.

### Relative density

1 - 1.3 (H<sub>2</sub>O=1)

### Solubility(ies)

#### Solubility (water)

Insoluble.

### Partition coefficient (n-octanol/water)

Not applicable.

### Auto-ignition temperature

Not applicable.

### Decomposition temperature

Not applicable.

### Viscosity

350 - 450.

### Other information

#### Bulk density

1050 - 1250 kg/m<sup>3</sup>

#### VOC (Weight %)

0 g/l

## 10. STABILITY AND REACTIVITY

### Reactivity

The product is stable and non reactive under normal conditions of use, storage and transport.

### Chemical stability

Material is stable under normal conditions.

### Possibility of hazardous reactions

Hazardous polymerization does not occur.

### Conditions to avoid

Contact with incompatible materials.

### Incompatible materials

Acid. Crystalline silica in contact with powerful oxidizing agents, such as fluorine, chlorine trifluoride and oxygen difluoride, may cause fires. Crystalline silica will dissolve in hydrofluoric acid and produce a corrosive gas, silicon tetrafluoride. Calcium oxides. Sulfur oxides.

### Hazardous decomposition products

Calcium oxides. Sulfur oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Ingestion

Ingestion may cause irritation and stomach discomfort.

#### Inhalation

Inhalation of dusts may cause respiratory irritation. Prolonged and repeated exposure to airborne respirable crystalline silica can cause silicosis and/or lung cancer.

#### Skin contact

Exposure to dry product may cause drying of the skin and mild irritation, or more significant effects from the aggravation of other conditions. Wet product is caustic (pH  $\geq$  12) and dermal exposure may cause more severe skin effects, including thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of chemical (caustic) burns. Some individuals who are exposed to wet or dry product may exhibit an allergic response, which can result in symptoms ranging from mild rashes to severe skin ulcers.

### Eyes contact

Exposure to airborne dust may cause immediate or delayed irritation of the eyes. Depending on the level of exposure, effects may range from redness to chemical burns and blindness.

### Symptoms

Dust may irritate throat and respiratory system and cause coughing. May cause serious chemical burns to the skin. May cause chemical eye burns. Permanent eye damage including blindness could result.

### Information on toxicological effects

#### Acute toxicity

Not expected to be a hazard under normal conditions of intended use.

Components	Species	Test Results
Sodium chloride (CAS 7647-14-5) <b>Acute</b> <i>Dermal LD50</i> <i>Inhalation LC50</i> <i>Oral LD50</i>	Rabbit Rat Rat	> 10000 mg/kg > 42 mg/l, 1 Hours 3550 mg/kg

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

##### Respiratory sensitization

Not classified but possible due to skin sensitization effect.

##### Skin sensitization

Trace amounts of Cr(VI) compounds from Portland Cement may cause allergic skin reaction even after one exposure.

#### Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

#### Carcinogenicity

Repeated and prolonged exposures to high levels of respirable crystalline silica may cause cancer.

##### ACGIH Carcinogens

Portland Cement (CAS 65997-15-1)  
Crystalline Silica (CAS 14808-60-7)

A4 Not classifiable as a human carcinogen.

A2 Suspected human carcinogen.

Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (Group 2B).

##### IARC Monographs. Overall Evaluation of Carcinogenicity

This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals.

Crystalline Silica (CAS 14808-60-7)

1 Carcinogenic to humans.

#### Reproductive toxicity

Not expected to be a reproductive hazard.

#### Specific target organ toxicity-single exposure

No data available, but none expected.

#### Specific target organ toxicity-repeated exposure

Not classified. For detailed information, see section 16.

#### Aspiration hazard

Due to the physical form of the product it is not an aspiration hazard.

#### Further information

Prolonged and routine inhalation of high levels of respirable crystalline silica particles can lead to the lung disease known as silicosis. Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica. Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. May cause eczema-like skin disorders (dermatitis).

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The product is not expected to be hazardous to the environment. Large amounts of the product may affect the pH-factor in water with possible risk of harmful effects to aquatic organisms.

Components	Species	Test Results
Sodium chloride (CAS 7647-14-5) <b>Aquatic</b> Crustacea EC50	Water flea (Daphnia magna)	40.7 - 469.2 mg/l, 48 hours

### Persistence and degradability

No data is available on the degradability of this product.

### Bioaccumulative potential

Bioaccumulation is not expected.

### Mobility in soil

No data available.

### Other adverse effects

None expected.

## 13. DISPOSAL CONSIDERATIONS

### Disposal instructions

Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.

### Local disposal regulations

Dispose of in accordance with local regulations.

### Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

### Waste from residues / unused products

Dispose of in accordance with local regulations.

### Contaminated packaging

Dispose of in accordance with local regulations.

## 14. TRANSPORT INFORMATION

### SCT

Not regulated as dangerous goods.

### DOT

Not regulated as a hazardous material by DOT.

### ADR

Not regulated as a dangerous good.

### RID

Not regulated as dangerous goods.

### ADN

Not regulated as dangerous goods.

### IATA

Not regulated as a dangerous good.

### IMDG

Not regulated as a dangerous good.

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

Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC code.

## 15. REGULATORY INFORMATION

### Saudi Arabian Inventory of Chemical Substance:

CAS #	65997-15-1	Portland Cement
CAS #	14808-60-7	Crystalline Silica
CAS #	39445-23-3	Calcium and magnesium hydroxide (Hydrated lime)
CAS #	9003-20-7	Vinyl acetate Polymer

**16. OTHER INFORMATION,  
INCLUDING DATE OF  
PREPARATION OR  
LAST REVISION**

**Issue date**

1-April-2019

**Revision date**

1-December-2022

**Version #**

02

**List of abbreviations**

NFPA: National Fire Protection Association.

**Further information**

Crystalline silica: Raw materials in this product may contain respirable crystalline silica.

Exposures to respirable crystalline silica are not expected during the normal use of this product. However, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.

OSHA's "Preventing Skin Problems from Working with Portland Cement" provides excellent guidance and can be downloaded at: <https://www.osha.gov/dsg/guidance/cement-guidance.html>

NFPA Ratings:

Health: 2

Flammability: 0

Physical hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**NFPA Ratings:**



**Disclaimer**

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

**Notice:**

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