PRODUCT DATA SHEET

# Davco Ultra Epoxy Tile Grout

100% SOLID EPOXY GROUT

## DESCRIPTION

Davco Ultra Epoxy Tile Grout is a 100% solid epoxy grout with very high performance. It offers maximum protection against staining and chemical damage. It is suitable for immersed water areas.

## USES

Wall/ floor, Interior/ exterior.
- Clinical sanitation.
- Commercial kitchens
- Hospitals.
- Commercial food processing plants.
- Laboratories.
- Industrial.

Immersed area.
- Swimming pool.
- Spas.
- Steam rooms.
- Car wash.

## CHARACTERISTICS / ADVANTAGES

- High performance 2 components 100% solid epoxy grout.
- For tile gap between 1 - 15 mm.
- Excellent bonding strength, can be used for tiling.
- Excellent resistance to chemical, black mold and stain.
- Suitable for fully immersed area such as swimming pool, fish pond, fountain and spa.
- Suitable for high hygienic installations such as hospitals, factory, veterinary clinic, commercial kitchen and laboratories.
- Easy to apply and easy to clean up.
- 3 colors available.

## APPROVALS / CERTIFICATES

Pass and comply with ANSI 118.3 - 1999 (reaffirmed 2005) standard

## PRODUCT INFORMATION

| | |
|---|---|
| **Composition** | Epoxy resin |
| **Packaging** | 4 kg set (A+B), 6 sets per box (24 kgs) |
| **Appearance / Colour** | White, Slate grey and Black |
| **Shelf life** | 12 months from date of production if stored in undamaged and unopened, original sealed packaging |
| **Storage conditions** | Store in dry conditions and protected from direct sunlight. |

## TECHNICAL INFORMATION

| | |
|---|---|
| **Compressive strength** | > 25 N /mm² at 7 days (refer to ANSI 118.3) |
| **Shrinkage** | ≤ 0.25% at 7 days (refer to ANSI 118.3) |
| **Chemical resistance** | List of Chemical Resistance<br>√ = Good resistance x = Not recommened |

(Acid Group)

| CHEMICAL | CONCENTRATION (%) | LAB RESULT |
|---|---|---|
| Acetic acid | 2.50% | √ |
| Acetic acid | 5% | √ |
| Acetic acid | 10% | x |
| Hydrochloric acid | 37% | √ |
| Chromic acid | 20% | x |
| Citric acid | 10% | √ |
| Formic acid | 2.50% | √ |
| Formic acid | 10% | x |
| Lactic acid | 2.50% | √ |
| Lactic acid | 5% | √ |
| Lactic acid | 10% | √ |
| Nitric acid | 25% | √ |
| Nitric acid | 50% | x |
| Pure oleic acid | - | x |
| Phosphoric acid | 50% | √ |
| Phosphoric acid | 75% | √ |
| Sulphuric acid | 1.50% | √ |
| Sulphuric acid | 50% | √ |
| Sulphuric acid | 96% | x |
| Tannic acid | 10% | √ |
| Tartaric acid | 10% | √ |
| Oxalic acid | 10% | √ |

(Alkaline)

| CHEMICAL | ACTIVE CHLORINE CONCENTRATION | LAB RESULT |
|---|---|---|
| Sodium hypochlorite in solution | 6.4 g/l | √ |
| Sodium hypochlorite in solution | 162 g/l | x |

(Alkaline)

| CHEMICAL | CONCENTRATION (%) | LAB RESULT |
|---|---|---|
| Ammonia in solution | 25% | √ |
| Caustic soda | 50% | √ |
| Potassium permanganate | 5% | √ |
| Potassium permanganate | 10% | √ |
| Potassium hydroxide | 50% | √ |
| Sodium bisulphite | 10% | √ |

(Oil and fuel)

| CHEMICAL | CONCENTRATION (%) | LAB RESULT |
|---|---|---|
| Petrol, fuel | - | √ |
| Turpentine | - | √ |
| Diesel fuel | - | √ |
| Tar oil | - | √ |
| Olive oil | - | √ |
| Light fuel oil | - | √ |
| Petrol | - | √ |

(Solvent)

| CHEMICAL | CONCENTRATION (%) | LAB RESULT |
|---|---|---|
| Acetone | - | x |
| Ethylene glycol | - | √ |
| Glycerine | - | √ |
| Methylene glycol acetate | - | x |
| Perchloroethylene | - | x |
| Carbon tetrachloride | - | √ |
| Ethyl alcohol | - | √ |
| Trichloroethylene | - | x |
| Chloroform | - | x |
| Methylene chloride | - | x |
| Tetrahydrofurane | - | x |
| Toluene | - | x |
| Carbon sulphide | - | √ |
| White spirit | - | √ |
| Benzene | - | x |
| Trichloroethane | - | x |
| Xylene | - | x |
| Mercuric chloride (HgCl2) | 5% | √ |
| Hydrogen peroxide | 1% | √ |
| Hydrogen peroxide | 10% | √ |
| Hydrogen peroxide | 25% | √ |

(Saturated solution +20°c)

| CHEMICAL | CONCENTRATION (%) | LAB RESULT |
|---|---|---|
| Sodium hyposulphite | - | √ |
| Calcium chloride | - | √ |
| Ferric chloride | - | √ |
| Sodium chloride | - | √ |
| Sodium chromate | - | √ |
| Sugar | - | √ |
| Aluminium sulphate | - | √ |

## APPLICATION INFORMATION

| | |
|---|---|
| **Mixing ratio** | Component A : Component B = 3 : 1 by weight |

**Consumption**

2 - 4 sq.m. / 1 kg
The consumption of grout varies depending upon the size and thickness of tile and the width of tile joint. (unit: kg/m²)

| Tile size | Joint width (mm) | Rate of use (kg/m²) |
|---|---|---|
| 25 x 25 x 4 | 3.0 | 1.6 |
| 50 x 50 x 6 | 3.0 | 1.2 |
| | 5.0 | 2.0 |
| 100 x 100 x 6 | 3.0 | 0.6 |
| | 5.0 | 1.0 |
| | 7.0 | 1.4 |
| 100 x 100 x 10 | 3.0 | 1.0 |
| | 5.0 | 1.7 |
| | 7.0 | 2.3 |
| 200 x 200 x 6 | 3.0 | 0.3 |
| | 5.0 | 0.5 |
| | 7.0 | 0.7 |
| 200 x 250 x 6 | 3.0 | 0.3 |
| | 5.0 | 0.5 |
| | 7.0 | 0.7 |
| 300 x 300 x 6 | 3.0 | 0.2 |
| | 5.0 | 0.4 |
| | 7.0 | 0.5 |
| 400 x 400 x 8 | 3.0 | 0.2 |
| | 5.0 | 0.4 |

(roughly 1 inch = 2.5 cm = 25 mm)
Waste will be occured according to actual field performance including working method, skill and site condition.

| | |
|---|---|
| **Ambient air temperature** | min. +10°C to max. +35°C |
| **Open Time** | 90 minutes (at 20°C) |
| **Waiting time** | Epoxy grout can be applied after 24 hours of tiling application.<br>Wait 24 hours before traffic. |

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

- Do not apply the product if humidity of substrate is higher than 80% R.H.
- Mixing ratio of Part A 3 kg and Part B 1 kg must be strictly follow. Wrong mixing ratio will result in poor performance of product hardness and setting time.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- The tiles must be securely fixed.
- Joint must be clean and dry.
- The gap between tiles should not exceed 15 mm.

### MIXING

- Use power drill with mixing paddle on slow speed.
- Stir Part B (hardener) liquid. Then add the entire content of Part B 1 kg to the Part A 3 kg (resin) in a container.
- Mix Davco Ultra Epoxy Tile Grout part A and B with power drill until the compound is evenly distributed, lump-free and thick creamy paste is achieved.
- Ensure to scrape bottom and sides of container during mixing.
- Davco Ultra Epoxy Tile Grout should be used within 15-30 minutes after mixing. (depend on working temperature)

### APPLICATION

- Wait 24 hours after tilling to apply grout.
- Use a rubber float to fill the joint in diagonal motion and carefully remove excess grout sitting on the tile.
- Make sure the grout is forced into the joint and not just sitting on the top.
- Clean with a damp sponge.
- Remove surplus material from the face of the tiles with a dry cloth.

### CLEANING OF EQUIPMENT

Remove Davco Ultra Epoxy Tile Grout grout from tools, equipments and tiles with clean water immediately after the application.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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