

DUROGROUT

VITREOUS TILE GROUT



Fine 1-10mm



EPD®

■ PROPERTIES

Cementitious colored grout with selected quartz aggregates, reinforced with special acrylic polymer resins. The resulting finish surface of the grout is vitreous/porcelain-like and water repelling, while it does not allow for the accumulation of dirt and bacteria. It applies easily and cleans rapidly, having exceptional color stability and uniformity. It is resistant to both moisture and abrasion. Classified CG2/WAr according to EN 13888. The product has received an Environmental Product Declaration (EPD) following an assessment of the environmental impact of its life cycle. Registration number: S-P-13778, The International EPD® System.

■ APPLICATIONS

Suitable for grouting widths from 1-10mm, both indoors and out, wall and floor surfaces lined with ceramic tiles, granite and mosaic.

It is suitable to apply on heavy traffic areas (airports, super markets, restaurants), as well as spaces with permanent and high moisture levels, such as bathrooms, balconies, terraces and kitchens.

■ USE

1. Surface preparation

Remove from the tile surface all adhesive residues and clean the grout joints with a damp sponge. For exterior surfaces, the creation of expansion joints every 16-20m² is recommended. Prime the joints using PRIMER-PU and install the backer rod DS-265. After 2-3 hours, apply the elastomeric polyurethane sealant DUROFLEX-PU to fill the joints. Also the creation of perimeter expansion joints, 5-8mm wide, both indoors and out, is strongly recommended. Create expansion joints between the tiles and vertical surfaces, and fill in the same way as described above, thus reducing the compression of the joints from expansions and contractions.

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Alternatively, apply DS POLYMER, available in 32 colors (same with the grout colors of DUROSTICK), to ensure sealing without cracking at the junction of the tiles with the skirting and above it as well. For interior floors with radiant heating systems, it is recommended to create expansion joints every 20m². The use of DS POLYMER, available in 32 colors, will prevent the appearance of hairline cracks on the surface of the grouting material, and the consequent detachment of tiles.

2. Application

Empty the mortar into a clean container with cool water, at a ratio of 1.1-1.4lt of water to 5kg of mortar, and mix with a low rpm electric mixer, until a lump free, homogeneous mass is created. Allow the mixture to mature for 5-10 minutes and mix periodically, without adding extra water. Apply the grout using a grouting float, working diagonally towards the grout joints, without leaving any gaps or residues. When the grout begins to set, remove the residues using a damp sponge. Finally, when the material cures completely, clean/shine the surface with a dry cotton cloth. The addition of DUROSTICK ACRYLIC EMULSION in the mixing water, at a ratio of two parts water to one part emulsion, increases its impermeability and resistance to temperature variations (balconies, terraces, radiant heating systems). If a higher degree of flexibility is required, then, use the flexible & oil repellent grout for tiles and marble DUROGROUT FLEX of DUROSTICK. For spaces highly resilient to strict hygiene requirements, the use of the epoxy grout DUROPOXY of DUROSTICK is highly recommended.

■ NOTES

- Avoid grouting at temperatures above 35°C when the surface is exposed to sunlight thus preventing cracking. If this is unavoidable, cover with wet burlap or polystyrene boards the still wet grouted surface.
- When working with rustic or absorbent cotto (terracotta) tiles, apply 2 coats of the waterproofing and oil repelling agent, DUROSTICK D-29 SPOT FREE or NANO PROOF MARMO DS-275, to facilitate easier

cleaning and to avoid staining from the residues of the grout.

- Allow for 20 days to pass from the completion of the grouting before cleaning all debris and grout residues, using the DUROSTICK ACID TILE CLEANER, but only when the tiles are not absorbent.

■ USEFUL TIP

DUROSTICK grouts are available in a variety of colors able to meet every styling requirement in relation with the lining. Furthermore, it is possible to color the DUROSTICK grouts, using the DUROCOLOR POWDER-C system. Color the white grouts based on the existing color chart or experiment creating unique colors or shading combinations.

■ CLEANING

Clean all tools with water, immediately after use.

■ CONSUMPTION

The following table is the indicative consumption, depending on the width and the depth of the joint, as well as the dimensions of the tiles.

| TILE DIMENSIONS (cm) | JOINT WIDTH (mm) | | | |
|----------------------------|------------------|-----|-----|------|
| | 2 | 5 | 8 | 10 |
| 2 x 2 x 0,38 (mosaic) | 1300 | - | - | - |
| 5 x 5 x 0,40 (mosaic) | 450 | - | - | - |
| 10 x 10 x 0,60 | 350 | 500 | 840 | 1350 |
| 20 x 30 x 0,90 | 200 | 300 | 530 | 850 |
| 30 x 30 x 1 | 190 | 280 | 470 | 750 |
| 40 x 40 x 1 | 140 | 210 | 350 | 560 |
| 50 x 50 x 1 | 110 | 170 | 280 | 450 |
| 60 x 120 x 1,10 | 80 | 110 | 200 | 310 |

The consumption rates refer to gr/m²

■ STORAGE

Store in the factory sealed packages, in dry and shaded places, for 18 months from production date.

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■ SAFETY DIRECTIONS

The product contains Portland cement.
Before use, refer to the cautions on the product packaging or the Safety Data Sheet.

■ PACKAGING

Carton box with 10pcs of 1kg.
Carton box with 4pcs of 5kg each one,
on 720kg pallet.

TECHNICAL SPECIFICATIONS

(Measurement conditions: 23°C and 50% R.H.)

| | |
|---|---|
| ■ Form | Cementitious mortar |
| ■ Color | 32 permanent colors with the ability to mix |
| ■ Bulk density of dry mortar | 1.10±0.05kg/lt |
| ■ Bulk density of fresh mortar | 1.70±0.05kg/lt |
| ■ Water requirement | 1.1 to 1.4lt water to 5kg mortar, depending on the color |
| ■ Application temperature | From +5°C to +35°C |
| ■ Temperature resistance | From -30°C to +80°C |
| ■ Pot life | 3 hours |
| ■ Grouting time after tile installation | 4-8 hours on walls, 24 hours on floors, 2-3 hours for fast setting adhesive on floors, 1 hour for fast setting adhesive on walls |
| ■ Foot traffic | After 8 hours |
| ■ Acid resistance | Excellent when pH > 3 (thinned) |

PRODUCT PERFORMANCES

■ Strength after 28 days, per EN 12808-3, in:

| | |
|---------------|------------------------------|
| • Flexion | 7.50±0.80 N/mm ² |
| • Compression | 40.00±1.50 N/mm ² |

■ Strength after 25 freeze-thaw cycles, per EN 12808-3, in:

| | |
|---------------|------------------------------|
| • Flexion | 7.50±0.80 N/mm ² |
| • Compression | 40.00±1.50 N/mm ² |

| | |
|----------------------------|----------|
| ■ Shrinkage per EN 12808-4 | ≤ 1 mm/m |
|----------------------------|----------|

| | |
|--------------------------------------|------------------------|
| ■ Abrasion resistance per EN 12808-2 | ≤ 1.000mm ³ |
|--------------------------------------|------------------------|

■ Water absorption per EN 12808-5

| | |
|---------------------|-------|
| • After 30 minutes | ≤ 2gr |
| • After 240 minutes | ≤ 5gr |

DUROGROUT VITREOUS TILE GROUT



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COLOR CHART OF VITREOUS GROUTS,
AVAILABLE IN 32 COLORS
(Packaging 5kg)



WHITE - No 301



BLACK - No 304



CARBON - No 333



DARK GRAY - No 303



LIGHT GRAY - No 302



SILVER GRAY - No 315



PARCHMENT - No 337



VIOLET - No 324



AEGEAN - No 330



BLUE - No 305



LIGHT BLUE - No 322



GREEN - No 306



BRICK RED - No 310



TERRACOTTA - No 325



CHOCOLATE - No 317



DARK BROWN - No 309



LIGHT BROWN - No 308



LIGHT BRICK RED - No 318



PEACH - No 313



TOBACCO - No 316



CRONUS - No 338



MAGNOLIA - No 321



SAND - No 334



BAHAMA - No 320



CARAMEL - No 335



CHESTNUT - No 336



IVORY - No 312



ANEMONE - No 319



BEIGE - No 307



OCHRE - No 326



YELLOW - No 311



RED - No 329

The technical specifications and directions of use contained in this technical data sheet are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.

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Fine 1-10mm

COLOR CHART OF VITREOUS GROUTS,
AVAILABLE IN 10 COLORS
(Packaging 1kg)



WHITE - No 301



BLACK - No 304



DARK GRAY - No 303



LIGHT GRAY - No 302



SILVER GRAY - No 315



DARK BROWN - No 309



LIGHT BROWN - No 308



BAHAMA - No 320



ANEMONE - No 319



BEIGE - No 307

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