

# VINYL TITANIUM



## Vitreous vinyl tile grout, 1-10mm



### ■ PROPERTIES

Next generation cementitious colored grout with exceptionally refined quartz aggregates, reinforced with vinyl resins (vinyl acetate). The new generation VINYL technology gives the grout excellent workability, while the cleaning process after grouting is now an easy task for the craftsman. 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 presents color stability and uniformity that is unaffected over time. Classified CG2/WAr, exceeding the requirements of the EN 13888 standard.

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 of joints from ceramic tiles, granites, and mosaics. Use it for

floors and walls in interior and exterior spaces, even in heavy traffic areas (airports, super markets, restaurants), as well as in areas with elevated moisture levels, such as bathrooms, terraces, roofs and kitchens.

### ■ USE

#### 1. Surface preparation

Remove from the tile surface all adhesive residues (if any) and clean the grout joints with a damp sponge.

For exterior surfaces, the creation of expansion joints every 16-20m<sup>2</sup> 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 (interior and exterior spaces), 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

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contractions. 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 20m<sup>2</sup>. 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 grout 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).

In spaces where strict application and observance of hygiene requirements is necessary, 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 D-29 SPOT FREE or NANO PROOF MARMO DS275 of DUROSTICK, 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

### ■ USEFULL TIP

VINYL TITANIUM of DUROSTICK is available in a variety of colors able to meet every styling requirement in relation with the lining. Furthermore, it is possible to color the grout, using the DUROCOLOR POWDER-C system. Color the white grout according 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 (glass mosaic) | 1300             | -   | -   | -    |
| 5 x 5 x 0.40 (glass 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 1                   | 110              | 170 | 280 | 450  |
| 60 x 120 x 1.10             | 80               | 110 | 200 | 310  |

### ■ STORAGE

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

### ■ SAFETY DIRECTIONS

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

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### ■ PACKAGING

Carton box with 4 pcs. of 5kg each one.

| TECHNICAL SPECIFICATIONS<br>(Measurement conditions 23°C and 50% R.H.) |  |
|--|--|
| ■ Form   | Cementitious mortar  |
| ■ Color  | 35 permanent colors with the ability to mix them further   |
| ■ Bulk density of dry mortar   | 1.10±0,05kg/lt   |
| ■ Bulk density of fresh mortar   | 1.70±0,05kg/lt   |
| ■ Water requirement  | 1.1 up 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,<br>24 hours on floors,<br>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 (diluted)  |

| PRODUCT PERFORMANCES  |  |
|---|--|
| ■ Strength after 28 days, per EN 12808-3, in:               |  |
| • flexion   | 7.50±0.8 N/mm <sup>2</sup>                 |
| • compression   | 40.00±1.5 N/mm <sup>2</sup>                |
| ■ Strength after 25 freeze-thaw cycles, per EN 12808-3, in: |  |
| • flexion   | 7.50±0.8 N/mm <sup>2</sup>                 |
| • compression   | 40.00±1.5 N/mm <sup>2</sup>                |
| ■ Shrinkage per EN 12808-4                                  | ≤1 mm/m                                    |
| ■ Abrasion resistance per EN 12808-2                        | ≤1.000 mm <sup>3</sup>                     |
| ■ Water absorption per EN 12808-5                           | After 30 min: ≤2gr,<br>after 240 min: ≤5gr |

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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.

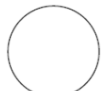
# VINYL TITANIUM



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COLOR CHART OF VITREOUS GROUTS,  
AVAILABLE IN 35 COLORS

(Packaging 5kg)



WHITE  
No 201



BLACK  
No 204



CARBON  
No 233



DARK GRAY  
No 203



LIGHT GRAY  
No 202



SILVER GRAY  
No 215



PARCHMENT  
No 237



VIOLET  
No 224



GRAPHITE BLUE  
No 241



AEGEAN  
No 230



BLUE  
No 205



LIGHT BLUE  
No 222



GREEN  
No 206



BRICK RED  
No 210



TERRACOTTA  
No 225



CHOCOLATE  
No 217



DARK BROWN  
No 209



LIGHT BROWN  
No 208



ANTIQUÉ ROSE  
No 239



CLAY  
No 240



LIGHT BRICK RED  
No 218



PEACH  
No 213



TOBACCO  
No 216



CRONUS  
No 238



MAGNOLIA  
No 221



SAND  
No 234



BAHAMA  
No 220



CARAMEL  
No 235



CHESTNUT  
No 236



IVORY  
No 212



ANEMONE  
No 219



BEIGE  
No 207



OCHRE  
No 226



YELLOW  
No 211



RED  
No 229

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