

MULTIFILL-DIAMOND 1-12

High-performance, designer, polymer-modified, cement-based tile grout

Description

MULTIFILL-DIAMOND 1-12 is a high-performance, designer, highly water-repellent, colored, quick-setting, polymer-modified, cement-based tile grout. Thanks to its Portland cement-free formulation, it ensures perfect color uniformity and prevents the appearance of efflorescence and lime deposits. For the same reason, it is also more user-friendly – non-irritating. MULTIFILL-DIAMOND 1-12 develops quickly, within 24 hours, high mechanical strength. Features also great water-repellency with drop effect. Containing special bacteriostatic agents, it prevents the growth of bacteria in the joints. Ideal for 1-12 mm grout joints.

Classified as type CG2 WA tile grout according to EN 13888 & ISO 13007-3. Test report No.: 22/32300791 & 22/32300792, APPLUS Laboratories.

MULTIFILL-DIAMOND 1-12 has received an Environmental Product Declaration (EPD) following an assessment of its life-cycle environmental impacts. Registration No.: S-P-06175, The International EPD® System.

Fields of application

Designed for use with all types of wall and floor tiles including natural stone, in both internal and external applications.

Technical data

| | |
|--|-------------------------|
| Form: | cementitious powder |
| Colors: | 18 |
| Water demand: | 0.90-1.00 l/4 kg bag |
| Bulk density of dry mortar: | 1.20 ± 0.05 kg/l |
| Bulk density of fresh mortar: | 1.70 ± 0.05 kg/l |
| Application temperature: | from +5°C to +35°C |
| Abrasion resistance: (EN 12808-2) | ≤ 250 mm ³ |
| Compressive strength after: | |
| • 28 days: | 25.00 N/mm ² |
| • 25 freeze-thaw cycles: (EN 12808-3) | 25.00 N/mm ² |

Flexural strength after:

- 28 days: 7.00 N/mm²
- 25 freeze-thaw cycles:
(EN 12808-3) 7.00 N/mm²

Drying shrinkage:
(EN 12808-4) ≤ 1.00 mm/m

Water absorption after:

- 30 min: ≤ 0.10 g
- 240 min: ≤ 0.40 g

(EN 12808-5)

Pot life: at least 50' at +20°C

Walkability: after 3-4 h at +20°C

Directions for use

1. Substrate

The substrate covered with tiles should be perfectly clean. The joints should be carefully cleaned and dampened with a wet sponge.

2. Application

MULTIFILL-DIAMOND 1-12 is added to water under continuous stirring until a uniform paste is formed. A low-speed mixer is recommended for mixing. The mixture should be left for about 3 min to stand and then is slightly stirred again. The grout is spread diagonally across the joints with a rubber float to fill them completely. The excess material should be wiped after a while, using a wet sponge, to avoid any change in color. Finally, the surface should be cleaned with a dry cloth.

For use outdoors or at high temperatures, repeated dampening is recommended after a few hours and when the grout has dried.

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Consumption

The consumption of MULTIFILL-DIAMOND 1-12 depends on tile dimensions and joint width. The following cases are mentioned indicatively (values in g/m²):

| Tile dimensions (cm) | Joint width | | | |
|----------------------|-------------|------|------|-------|
| | 2mm | 4mm | 8mm | 12mm |
| 2 x 2 x 0.3 | 820 | 1.63 | --- | --- |
| 10 x 10 x 0.6 | 330 | 650 | 1.31 | 1.960 |
| 15 x 15 x 0.7 | 250 | 510 | 1.02 | 1.520 |
| 20 x 20 x 0.7 | 190 | 380 | 760 | 1.140 |
| 30 x 30 x 0.8 | 150 | 290 | 580 | 870 |
| 40 x 40 x 0.8 | 110 | 220 | 440 | 650 |
| 50 x 50 x 0.8 | 90 | 170 | 350 | 520 |

Packaging – Colors

MULTIFILL-DIAMOND 1-12 is available in the following 18 colors together with the corresponding codes, in 4 kg packaging:

| Color | |
|-----------------|---|
| 01 White | • |
| 02 Black | • |
| 03 Grey | • |
| 05 Light grey | • |
| 06 Bahama beige | • |
| 08 Brown | • |
| 09 Light brown | • |
| 10 Dark grey | • |
| 17 Anemone | • |
| 20 Maroon | • |
| 21 Caramel | • |
| 29 Silver grey | • |
| 30 Cement grey | • |
| 40 Dark Brown | • |
| 41 Earth Brown | • |
| 42 Grey Beige | • |
| 45 Sand | • |
| 46 Grey Blue | • |

Sets of MULTIFILL samples are available on request.

Shelf life – Storage

24 months from production date, in original, unopened packaging, in places protected from moisture and frost.

Remarks

- When it comes to absorbent ceramic and natural stone tiles, it is recommended to dampen the joints with clean water (without ponding water) prior to grouting to prevent dehydration, which may lead to reduced strength development.
- Care should be taken when grouting in high temperatures, direct sunlight or windy conditions to prevent dehydration of the grout.
- Consult the directions for safe use and precautions written on the packaging before use.

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