

# MULTIFILL-EPOXY GLITTER

## Two-component, decorative epoxy grout

### Description

MULTIFILL-EPOXY GLITTER is a two-component, solvent-free epoxy grout featuring high compressive, flexural and adhesive strength. With the addition of ISOMAT GLITTER special aggregates to MULTIFILL-EPOXY GLITTER a decorative grout with aesthetic metallic effect is formed. MULTIFILL-EPOXY GLITTER is resistant to several acids, alkalis, corrosive agents for concrete, cleaning agents, sea water and salted water. It has excellent workability and is easily cleaned with water before hardening. Suitable for joint width 1.5-12 mm. Classified as a RG tile grout according to EN 13888.

### Fields of application

MULTIFILL-EPOXY GLITTER is applied to achieve a grout with special sparkly finish created due to the reflection of light from ISOMAT GLITTER special aggregates. Furthermore, it is well-suited for grouting floor and wall tiles in areas requiring high mechanical strength and chemical resistance, such as hotels, restaurants, clubs, shops, commercial and industrial areas, showrooms, residences, etc. Ideally combined with glass mosaic tiles.

### Technical data

Base:	2-component epoxy resin
Colors:	6 selected colors with the addition of ISOMAT-GLITTER 100 Silver, 120 Turquoise, 150 Red, 170 Bronze, 180 Beige, 190 Gold
Mixing ratio (A:B):	100:7 by weight
Density (A+B+Glitter):	1.35 kg/l at +23°C
Pot life:	~ 45 min at +23°C
Cleaning:	in 45 min at +23°C
Walkability:	after 16 h at +23°C
Minimum hardening temperature:	+10°C
Partial loading:	after 48 h at +23°C
Full loading:	after 7 days at +23°C

Compressive strength:	≥ 45 N/mm <sup>2</sup>
Flexural strength:	≥ 30 N/mm <sup>2</sup>
Wear resistance:	≤ 250 mm <sup>3</sup>
Shrinkage:	≤ 1.5 mm/m
Water absorption after 240':	≤ 0.1 g
Adhesive strength:	> 3 N/mm <sup>2</sup> (failure of concrete)

### Cleaning of tools:

Tools should be cleaned thoroughly with water after any work interruption.

### Directions for use

#### 1. Mixing of the components

Components A (resin) and B (hardener) are packaged in two separate containers, in pre-determined mixing proportion by weight.

The whole quantity of component B is added to component A. Mixing of the two components should take place for approx. 3 minutes, using a low speed mixer (300 rpm.). It is important to thoroughly stir the mixture near the sides and bottom of the container, to achieve uniform dispersion of the hardener.

Next, ISOMAT-GLITTER is added, 10% by weight of MULTIFILL-EPOXY GLITTER (each 2kg packaging of MULTIFILL-EPOXY GLITTER is mixed with one packaging of 200g of ISOMAT-GLITTER) and continue stirring until glitters are uniformly dispersed in the mixture.

#### 2. Application process

##### Grouting of tile joints

The resulting mixture is gradually poured in the dry and clean joints and is spread using a rubber float in a diagonal direction to the joints, in order to fill them completely and to remove the excess material.

##### Cleaning of tile surface

The small quantity of the epoxy grout that remains on the floor tiles surface is emulsified by being rubbed with a slightly wetted hard sponge and it is wiped away immediately. Subsequently, the tile surface is cleaned again with a soft clean and slightly wetted sponge.

# MULTIFILL-EPOXY GLITTER

The use of lukewarm water makes cleaning easier. For even easier cleaning 10% spirit (by weight) may be added in the water used.

## Consumption

Consumption depends on tile dimensions and joint width. Indicative cases are shown below:

Tile dimensions (in cm)	Joint width			
	3 mm	7 mm	10 mm	12 mm
4.2 x 4.2 x 0.6	1,160	2,700	3,860	4,630
10 x 10 x 0.9	730	1,700	2,430	2,920
15 x 15 x 1.2	650	1,510	2,160	2,590
20 x 20 x 0.7	280	660	950	1,130
24 x 12 x 0.8	410	950	1,350	1,620
24 x 11.5 x	780	1,820	2,600	3,130
24 x 11.5 x 2	1,040	2,430	3,470	4,170
24 x 11.5 x 2.5	1,300	3,040	4,340	5,210
30 x 30 x 0.8	220	500	720	860
40 x 40 x 0.8	160	380	540	650
40 x 40 x 1.0	200	470	680	810
50 x 50 x 0.8	130	300	430	520

(Consumptions values in g/m<sup>2</sup>)

## Packaging

MULTIFILL-EPOXY GLITTER is available in bags of 2kg (A+B) and ISOMAT GLITTER in bags of 200g. A and B components are in predetermined mixing ratio by weight. The container of component B is built in the container of component A.

## Shelf life – Storage

12 months from date of production if stored in original sealed packaging, in areas protected from humidity and direct sunlight. Recommended storage temperature between +5°C and +35°C.

## Remarks

- In low temperatures the good workability of the material is affected and reaction times increase. On the other hand, in high temperatures working time is reduced. The ideal application temperature ranges between +15°C and +25°C, ensuring optimal workability and curing time. Low temperatures (<+15°C) delays curing time, while higher temperatures (>+30°C) cause accelerated curing. It is recommended to mildly preheat the materials during winter, and to store them in a cool room before use in the summer.
- MULTIFILL-EPOXY GLITTER is completely safe for health after hardening.
- Please consult the safety instructions written on the packaging before use.
- MULTIFILL-EPOXY GLITTER is intended for professional use only.

## Volatile organic compounds (VOCs)

According to Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory g, type SB is 350 g/l (2010) for the ready-to-use product.

The ready-to-use product MULTIFILL-EPOXY GLITTER contains max <350 g/l VOC.

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