

THREE-COMPONENT, EPOXY FLOOR MOSAIC (TERRAZZO) - REAL 420

PRODUCT DESCRIPTION

The three-component epoxy terrazzo mosaic is a decorative and wear-resistant floor covering, developed by combining epoxy resin, specially selected colored pebbles and powdered chemical additives. It combines high mechanical strength with excellent adhesion, elasticity, chemical resistance and load resistance. It is applied on previously cleaned and sound concrete substrates.

TECHNICAL SPECIFICATIONS

Appearance	Semi-gloss
Color	color of choice
Density (g/ml +20°C)	1,58 ± 0,05
Mixing ratio by weight	A comp.: 34.4 units B comp.: 5.6 units C comp.: 60 units
Solids content by weight (w/w)	% 98 ± 2
Application method	Trowel
Reapply up to	5 days
Open time at +20°C	35-40 min.
Устойчивост на износване	80.5-85.1 mg. (CS 10/1000)
Shore D hardness	94 ± (DIN 53505)
Bending strength	45 N/mm m ² (TS EN 196-1)
Compressive strength	68 N/mm m ² (TS EN 196-1)
Tensile strength in concrete	4 N/mm m ² (TS EN 4624)
Complete drying at +22°C	7 days



Wet film thickness (μ)	Dry film thickness (μ)	Consumption rate ± 10 (kg/m ²)
12	10.8	21.65

Note: When the thickness of the application layer increases, the consumption also increases.

AREA OF APPLICATION

Hybrid, self-leveling epoxy concrete is suitable for floors in shopping centers (malls), airports, hotels, hospitals, universities and business buildings, and more.

SHELF LIFE

The product should be stored in its original packaging in a cool and dry place. The shelf life in unopened packaging is 12 months for components A and B.

APPLICATION METHOD

First, apply (0.6-0.9 kg/m²) of 2K epoxy primer RESIN 360 with a roller. Before applying the primer, its components are mixed well separately, then mixed and stirred until a homogeneous mixture is obtained. 3 kg of quartz sand with a grain size of (0.5-0.6 mm) is added to the resulting mixture of components A and B. After applying the primer, while it is still wet, a (0.3 kg/m²) fiberglass roll is placed on top for greater strength. Then (2 kg/m²) of quartz sand with a grain size of (0.8-1.3 mm) is sprinkled on the laid fiberglass roll. After drying and hardening, (5.5 kg/m²) of 3K epoxy floor mosaic terrazzo SLF 420 is applied with a trowel or squeegee. To the terrazzo floor mosaic, (13 kg/m²) colored fractions with a grain size of (0.8-1.3 mm) are added. Only stone fractions (13 kg/m²) can be added or (7 kg/m²) glass fractions with (6 kg/m²) stone fractions can be combined. The mixing ratio of glass and stone fractions can be determined at the customer's request, for example 60/40%, 50/50%, 70/30% or others. After complete drying and hardening, the surface is sanded gradually with a floor sander with a diamond tip (grain size P30-P60-P90-P120), from coarse to fine grinding, in order to reveal the terrazzo structure and make the surface ready for use.

APPLYING A PROTECTIVE LAYER (VARNISH)

After the surface has been cleaned of dust and any dirt caused by sanding, a thin layer (0.2 kg/m²) of 2K polyurethane varnish Real PU 125 is applied.

This treatment reduces the absorption of the surface, increases the stain resistance, ensures a more homogeneous appearance during the final polishing stage, improves UV resistance and color stability. After applying the varnish, the recommended curing time must be waited, after which the final sanding and polishing can be carried out.

DRYING AND CURING TIME

Ready for foot traffic after: 48 hours

Ready for heavy traffic after: 72 hours

The times stated are valid at an ambient temperature of +20°C. At lower temperatures, the curing time may be extended.

AREA OF APPLICATION

It is applied in shopping malls, airports, hotels, hospitals, universities and business buildings where high wear resistance, durability and aesthetic appearance of the flooring are required.

Table for terrazzo flooring with a thickness of 10-12 mm

Material	Product	Consumption. kg/m ²	Packages	Thickness mm
Primer	RESIN 360	0.6 / 0.9	(A+B) = 18 kg	0.56
Quartzsand	Quartz sand (0.5-0.5 mm)	0.05	25 kg	0.02
Fiberglass	Roll	0.3	45 kg	0.17
Quartzsand	Quartz sand (0.8-1.3 mm)	2	25 kg	0.87
Epoxy resin	Epoxy terrazzo mosaic - REAL 420	5.5	(A+B) = 20 kg	3.93
Terrazzo fraction	Stone granules (1.3 mm colored)	6	(C) = 25 kg	2.61
	Glass granules (1.3 mm colored)	7	(C) = 25 kg	3.04
Protective layer	2K P.U Varnish - PU 125	0.2	(A+B) = 15 kg	0.17
	Total	21.65		11.37

Note: After application and grinding with a diamond-tipped machine, the coating reaches a total thickness of approximately 9-10 mm. The application must be carried out on previously prepared sound, clean and dry surfaces. The total consumption is 21.65 kg/m², and the materials are applied in the order indicated in the table. The layers are applied with a notched steel trowel 8-10 mm.

ENVIRONMENTAL CONDITIONS

The air temperature should be in the range of +15°C to +35°C. Application should not be carried out at humidity above 80%. The surface temperature should be at least 3-5°C above the dew point to prevent condensation.

It should be borne in mind that the material consumption will increase when applying at low temperatures. The surface temperature should be at least +5°C and at most +45°C.

HEALTH AND SAFETY WORKING CONDITIONS

Read the Material Safety Data Sheet (MSDS) for safety rules and warnings.

The most important safety rules to follow are:

- Contact of the product with the skin and eyes should be prevented by using gloves, safety glasses, face mask and cream.
- Ventilation should be provided during application and until the primer has completely dried.
- In case of contact with the skin, the affected area should be washed with warm water, soap or detergent.
- In case of contact with the eyes, rinse thoroughly with water for at least 10 minutes and seek medical attention.
- It is necessary to carefully read all warning labels on the packaging and strictly follow the recommended operating instructions.

PACKAGING

REAL 420

A Component: 17.2 kg.

B Component: 2.8 kg.

C Component: 30 kg.

Total weight: 50 kg



*Product information is prepared based on our own laboratory tests and studies under normal conditions. Our company is not responsible for work performed under inappropriate working conditions. The company reserves the right to change this information. For more detailed information, please contact... R.Y.K.

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www.adacolor-bg.com

Sofia
6 "Andrey Germanov" str.
mobile: 089 666 3042 / 089 468 3880

Sofia, "Ovcha Kupel 1" quarter
33 "Promishlena" str., 429 bl., store 18,
mobile: 089 666 9071

Plovdiv
176 "Brezovsko shose" str.
mobile: 089 544 7503 / 089 666 3044

Varna
25 "Usta Kolyu Ficheto" str.
mobile: 089 666 9079 / 089 466 9023

Shumen, "Dobrudzhanski" quarter
Ind. zone, "Stroykomplekt" site
mobile: 089 455 1685 / 089 666 3043

Kardzhali
1 "Klokotnitsa" str.
mobile: 089 575 0749 / 089 666 3057

Troyan
49 "Makedoniya" str.
mobile: 089 666 9079 / 089 673 4489

Haskovo, 5 "Okolovrasten pat" str.
South Industrial zone
mobile: 089 666 3051 / 089 241 2833