

MASTERTOP™ GRANIT

Decorative, Self-smoothing, Granite finish epoxy screed

Description

MASTERTOP GRANIT is a self-smoothing, Granite finish; floor screed based on advanced solvent free epoxy resin system and selected graded fillers. The cured floor exhibits resistance to abrasion and chemicals, and finishes to a smooth, decorative, seamless, impervious surface that can easily be maintained in clean and hygienic condition. It functions well on concrete, cement screed, natural stones and terrazzo.

Uses

MASTERTOP GRANIT is used in areas where a high level of aesthetics is needed, in addition to abrasion due to foot traffic, rubber wheeled traffic or chemical spillage. It is ideal for floors in:

- Food production and processing
- Beverage production including soft drink manufacturing
- Pharmaceutical areas, laboratories, clean rooms
- Showrooms, demonstration areas
- Industrial and commercial kitchens
- Boutiques, Retail, Health care
- Reception areas – Hotels & Offices
- Schools and Hospitals
- Bedrooms and Boardrooms

Advantages

- Colourful – Granite finish
- Excellent wear and abrasion resistance
- Easily applied
- Slip resistant, decorative finish
- Easy to clean
- Does not taint food
- Good general chemical resistance

Typical Properties

Mixed density	: 1.7 kg/L at 25°C
Pot life	: 30 mins at 25°C
	: 15 mins at 40°C
Setting Time/ Foot traffic	: 12 hours at 25°C
Vehicular traffic	: 36 hours at 25°C
Maximum service temperature	: 60°C
Compressive Strength (ASTM C579)	: 24 MPa at 1 day
	60 MPa at 7 days
Flexural strength (BS 6319, Part 3)	: 50 MPa at 7 days
Tensile strength (BS 6319, Part 7)	: 10 MPa at 7 days
Slip resistance (TRRL rubber, dry)	: 99
Abrasion Resistance, CS17 wheel (ASTM D4060, 1000 cycles)	: < 15 mg

Specification Clause

The decorative epoxy self-levelling with liquid granite finish shall be MASTERTOP GRANIT, 100% solid, pigment less system consisting of graded coloured fillers to provide the toughness and aesthetic finish. The system shall consist of MASTERTOP 1200 PLUS, 100% solid, solvent free primer and body coat of MASTERTOP GRANIT. Overall the system shall be able to offer good abrasion resistance; shall not exceeding wear loss of 15 mg when subjected to CS17 test wheel on Taber apparatus as per ASTM D4060 in 1000 cycles. Also product shall have compressive strength of 24 MPa at 24 hours and 50 MPa at 7 days. The system shall be resin rich and capable of self-smoothing finish.

Directions for use

The floor receiving MASTERTOP GRANIT must be sound, dry, fine-grained and load bearing, free of laitance, loose and brittle particles and substances which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. The adhesion bond strength of the substrate must be ≥ 1.5 MPa. Ensure that the compressive strength of floor concrete is ≥ 25 MPa and that floor slabs directly in contact with the ground have a proper vapour barrier installed and the moisture content of substrate shall not be higher than 4% through out.

Temperature Requirements

- Substrate temperatures: 15°C – 35°C
- Material temperatures: 15°C – 30°C

Very low or very hot temperatures will make application more difficult and careful consideration should be given to storage of materials. In the cold weather conditions, pre-condition materials by keeping it in a heated room. In hot weather conditions, some form of air-conditioned storage is required. Pre-conditioned materials at 20-25°C will reduce the possibilities of flash/slow setting and other defects.

Surface preparation

Use captive shot blasting, grinding or scarifying to produce a well-prepared laitance free surface; followed with vacuum cleaning.

Repair all the damaged or deeply pitted areas by CONCRETSIVE ERL, epoxy resin mortar.

Priming

It is essential to seal the concrete surface prior to the application of MASTERTOP GRANIT. Apply MASTERTOP 1200 PLUS Primer at 5 to 8 m²/kg,

depending on the absorption of substrate; ideally using a stiff brush, forcing the primer into the pores by a rotary scrubbing movement. If after drying, the surface appears patchy due to high absorption, recoat the primer.

If required, primer can be mixed with colour paste to make coloured primer for uniformed background colour as MASTERTOP GRANIT has no added pigment.

Allow the primer to dry before commencing application of MASTERTOP GRANIT.

Body coat

Mixing

All mixing should be done mechanically by using a slow speed drilling machine fitted with a paddle, taking care to ensure that the mixing head is well within the material during mixing.

Pour the Hardener into the Base container and mix for a minute. Transfer the mixed resin system to a pail, and keeping the mixer running add the filler completely to obtain a homogeneously mixed MASTERTOP GRANIT with a uniform colour.

Keep the same mixing time for all batches to ensure uniform colour.

Placing

Applicators of MASTERTOP GRANIT must wear spiked shoes during application.

Pour the mixed material onto the primed and sealed surface, and spread to the required thickness using a pin screed or a notched trowel. Immediately roll the spread material with a spiked roller to release entrapped air and remove trowel marks. Continue rolling until all air is released but well before the material starts to stiffen.

Curing

MASTERTOP GRANIT is self curing.

Protect the applied area from dust, spillage, insects and pedestrian or vehicular traffic for at least 36 hours.

Top coat

For UV protection, MASTERTOP GRANIT can be top coated by clear top coat such as MASTERTOP TC 441C

Coverage

16 kg unit of MASTERTOP GRANIT will yield 9.41 litres of mixed material.

Each pack of 16 kg is sufficient for 3 m² at an average thickness of 3 mm on fair-faced primed concrete surface including wastage.

Packaging

MASTERTOP GRANIT is supplied in 16 kg pack consisting of Base, Hardener and Fillers.

Storage and shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advices consult BASF's Technical Services Department.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact your local BASF representative.

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