

MasterTop® 1228

Three compound solvent free epoxy self-levelling flooring body coat

DESCRIPTION

MasterTop® 1228 is a high flowable solvent free epoxy base body coat with selected graded aggregate with high strength, environment-friendly and easy to application performance. Different surface finishing can be achieved with selected top coat.

RECOMMENDED USES

- Carparks
- Pharmaceutical and cosmetic industries
- Laboratory areas
- Medical facilities
- Clean rooms and other sterile areas
- Showrooms
- De-contaminable areas
- T.V. studios
- Warehouses and high rack storage
- Laundries

FEATURES AND BENEFITS

- Pre-packaged and proportioned: no job site errors
- Wide color range: able personalize an installation
- Excellent durability: long service life
- High resistance to chemical and mechanical attack: able to use in a wide range of applications
- Excellent flowability: easy to apply

PROPERTIES

Compressive strength (ASTM D695:08)	>70N/mm ²
Flexural Strength(ISO 178)	8.5N/mm ²
Bond Strength(ISO 4624)	>2N/mm ² (Concrete Failure)
Abrasion Resistance (DIN53754)	<30mg
Modulus of Elasticity (ASTM D 790)	4900N/mm ²
Shore D (ISO 868)	50,1 day 75,7 day
Temperature Resistance	-20-60°C

	Supply form color	Density Kg/L	Kg
MasterTop® 1228 Part A	Cream white liquid	1.75	19.4
MasterTop® 1228 Part B	Amber liquid	1.02	4.0
MasterTop® X1	Colored paste	2.0	0.6

Body coat	@10°C	@20°C	@30°C
Potlife (Min)	60	35	15
Return to service (days)	7	3	2
Max relative humidity	75%	85%	85%

APPLICATION

(A) SURFACE PREPARATION

Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion. Laitance should preferably be removed by light sweep blasting or hydro-jetting. Mechanical wire brushing may be appropriate for small areas.

Spalled concrete should be cut back to sound concrete and made good with a suitable cementitious MasterEmaco repair mortar.

Conventional concrete curing compounds should be removed before application.

The compressive strength of the substrate shall not be less than 25N/mm². The concrete slab in contact with the ground must have a vapour barrier installed in compliance with DIN 18195 or equivalent, or be primed with MasterTop® 1602.

After pre-treatment of the substrate, the bond strength of the substrate must be at least 1.5 N/mm². The moisture content of the substrate shall not be higher than 4% throughout. The temperature of the substrate must be at least 3°C above the current dew point temperature.

Protect walls and columns against resin splashes using masking tape and plastic sheeting.

(B) MIXING

All mixing should be done using a slow speed drill (600-900rpm.) and a spiral mixing paddle, or pan mixer.

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Premix MasterTop[®]1228 PART B and MasterTop X1 thoroughly mix to ensure the pigment is uniformly dispersed. Add the MasterTop[®]1228 PART A and continue to mix for a further 3 minutes, occasionally scraping the side and bottom corner of container. Ensure the final mix is lump free, homogeneous and even in color. Mixing of large mixes (multiples of the above kits) may be done in a forced action mixer.

Ensure all containers are completely empty before disposal.

(C) PRIMING

Prime floor with MasterTop[®]1602, at 3-5mc per litre

(D) APPLICATION

The mixed material should be applied on to the prepared and primed floor using a notched or flat trowel to atypical thickness of 2mm minimum. The surface should be spike rolled to remove the entrapped air. Ensure application is a continuous operation and laying is within 15 minutes of mixing and spike rolled within 5 minutes of laying.

CURING

Waiting times between MasterTop[®] 1602 and MasterTop[®]1228 should not be less than 8 hours and not more than 24 hours. Where extended over coating times new layer of primer is required. Top coat can be applied after 16h later.

The floor should be protected from traffic and spillage for at least 48 hours. Full chemical and mechanical resistance is obtained after 7 days.

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ESTMATING DATA

Primer	Kg/M2	Thickness mm
MasterTop [®] P1602 A: B 10:2.2	0.3-0.5	0.3-0.4
Scratch Primer		
MasterTop [®] 1228 A+B+C : F1 sand 1 : 1	0.4-0.6	0.3-0.4
MasterTop [®] 1228 A+B+C: F1 sand 10 : 3	3.5-5.3	2.0-3.0

ATTENTION

- Mix entire contents of each unit as supplied. Do not attempt to split units unless accurate measurement can be assured.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals Material Safety Data Sheet (MSDS) from our office or our website

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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