

MASTERTOP[®] BC 370 AS

Two component solvent-free epoxy based self-levelling anti-static floor coating

Description

MASTERTOP BC 370 AS is a conductive, solvent-free pre-filled, pigmented two component epoxy based self levelling coating.

Fields of application

MASTERTOP BC 370 AS is for indoor use where an anti-static floor coating is required. MASTERTOP BC 370 AS is suitable for applications to mineral substrates such as concrete or cement mortar screeds, primed with MASTERTOP P 601 and MASTERTP CP 687 W-AS (conductive primer). MASTERTOP BC 370 AS resists medium to heavy industrial traffic. It is used in the systems MASTERTOP 1270 AS and MASTERTOP 1270 AS-R.

Features & benefits

- conductive floor coating
- exhibits excellent mechanical strength and antistatic properties
- abrasion resistant
- good adhesion to non-porous substrates
- easy to clean and maintain
- easy to apply
- extremely resistant to a variety of alkalis, diluted acids, brine, mineral oils, lubricants and fuels.

Packaging

MASTERTOP BC 370 AS is supplied in 30kg working packs.

Colour

RAL 7032, 7035 (standard)

MASTERTOP BC 370 AS is available in range of colours. Consult your local sales office.

Technical data

Mixing ratio A : B	Parts by weight		5:1
Mixed density		g/cm ³	1.46
Viscosity	@ 23°C	mPas	1900
Pot life (30kg drum)	@ 20°C	min	30
Recoating interval / ready for traffic	@ 20°C	h	Min 15
		d	Max 2
Fully cured / ready for exposure to chemicals	@ 20°C	d	5
Substrate and application temperatures		°C	Min 10
		°C	Max 30
Max. permissible relative humidity		%	75
Shore D Hardness	after 28 days		80
Resistivity (resistance to ground)	DIN EN 1081	Ohms	10 ⁴ - 10 ⁶

The above figures are intended as a guide only and should not be used as a basis for specifications.



The Chemical Company

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Application method

MASTERTOP BC 370 AS is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both A and B components to a temperature of approximately 15 to 25 °C.

Pour the entire contents of part B into the container of part A. DO NOT MIX BY HAND. Mix with a mechanical drill and paddle at a very low speed (ca. 300 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. DO NOT WORK OUT OF THE ORIGINAL CONTAINER. After proper mixing to a homogeneous consistency pour the mixed parts A and B into a fresh container and mix for another minute.

After mixing, MASTERTOP BC 370 AS is applied to the substrate coated with MASTERTOP CP 687 W-AS conductive primer, using a notched trowel or scraper. The teeth size should be selected according to the thickness of layer required (take care not to exceed max. recommend coverage rate).

To remove air bubbles, spike roll 5-10min. after application.

The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application temperature should not fall below the minimum.

After application, the material should be protected from direct contact with water for approx. 24 h (at 20°C). Within this period, contact with water can cause a surface bloom and/or surface tackiness, both of which must be removed. Carbamate has a marked effect on the conductivity of the coating and would have to be removed.

Substrate pre-treatment

MASTERTOP BC 370 AS must be applied to substrates primed with conductive primer MASTERTOP CP 687 W-AS. The substrate must be load bearing, free of loose and brittle particles as well as substances, which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. Pre-treatment is only necessary when the re-coating interval of the conductive layer has been exceeded. If necessary, the conductive layer must be renewed.

After surface preparation the tensile strength of the substrate should exceed 1.5 N/mm² (check with an approved pull-off tester i.e. "Herion" at a load rate of 100 N/s) the residual moisture content of the substrate must not exceed 4 % (check with e.g. CM device).

The temperature of the substrate must be at least 3 K above the current dew point temperature. A damp proof course must have been properly installed and intact.

Consumption

2.0 – 2.5 kg/m²

Cleaning agent

Re-usable tools must be cleaned carefully with CLEANING SOLVENT NO. 2 or with e.g. isopropanol.

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Storage

Store in original containers under dry conditions at a temperature between 15-25°C. Do not expose to direct sunlight and prevent the temperature from falling below the above mentioned range (crystallisation). Under these conditions the material has a shelf life of 12 months. For maximum shelf life under these conditions, see "Best before" label.

EU Regulation 2004/42 (Decopaint Guideline)

This product conforms to the EU directive 2004/42/EG (Deco-Paint directive) and contains less than the maximum allowable VOC Limit (Stage 2, 2010). According to the EU directive 2004/42, the maximum allowable VOC content for the Product Category IIA / j type sb is 500 g/l (Limit: Stage 2, 2010). The VOC content for MASTERTOP BC 370 AS is < 500 g/l (for the ready to use product).


Warning

In its cured state, MASTERTOP BC 370 AS is physiologically non-hazardous. The following protective measures should be taken when working with the material:

Wear safety gloves, goggles and protective clothing. Avoid contact with the skin and eyes. In case of eye contact, seek medical attention. Avoid inhalation of the fumes. When working with the product do not eat, smoke or work near a naked flame. For additional references to safety-hazard warnings, regulations regarding transport and waste management please refer to the relevant Material Safety Data Sheet. The regulations of the local trade association and/or other authorities,

regulating safety and hygiene of workers handling epoxy resins must be followed.

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BASF Construction Chemicals (Schweiz) AG Industriestrasse 26 CH-8207 Schaffhausen
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EN 13813 SR-B1,5-AR1-IR4-E_{fl}
Synthetic resin screed/coating for use in buildings (system build-ups according to the respective technical data sheets)
Fire behaviour: E_{fl} Release of corrosive substances: SR Water permeability: NPD Wear resistance: AR1 (BCA-method, determined on smooth coatings) Adhesive tensile strength: B1,5 Impact resistance: IR4 Subsonic noise insulation: NPD Acoustical absorption: NPD Heat insulation: NPD Chemical resistance: NPD

NPD = No Performance Determined

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