

MASTERTOP BC 370

Formerly CONIPOX 270

Two-component solvent-free epoxy self-levelling floor coating

Product description

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

Fields of application

MASTERTOP BC 370 is applied indoors as a self-levelling coating and suitable for medium to heavy industrial wear. MASTERTOP BC 370 is applied to substrates such as concrete and cement screeds. MASTERTOP BC 370 can be filled with sand up to 1 : 0.7 by weight. It is used in the systems MASTERTOP 1270 and MASTERTOP 1270 R.

Features and benefits

- exhibits excellent mechanical strength
- extremely resistant if exposed for medium to heavy industrial wear
- abrasion resistant
- easy to apply
- easy to clean and maintain
- extremely resistant to water, sea and waste water, as well as resistant to a variety of alkalis, diluted acids, brine, mineral oils, lubricants and fuels.

Technical data

Mixing ratio	by weight		5 : 1
Density		g/cm ³	1.45
Viscosity	at 23 °C	mPas	1600
Pot-life (30 kg working pack)	at 20 °C	min.	30
Re-coating interval/ready for traffic	at 10 °C	h	min. 30
		d	max. 3
	at 23 °C	h	min. 8
		d	max. 2
Fully cured/ready for exposure to chemicals	at 20 °C	d	5
Substrate and application temperatures		°C	min. 10
		°C	max. 30
Max. permissible relative humidity		%	75

Technical data cured material

Shore D hardness	after 7 days	23°C	81
Compressive strength		N/mm ²	58
Taber abrasion	after 28 days / 23°C	mg	44

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

Application method

MASTERTOP BC 370 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 is applied to the prepared substrate, 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 5-10 min. 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 of the coating and has to be removed.

Substrate pre-treatment

MASTERTOP BC 370 must be applied to primed or scratch primed substrate. 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 – 3.0 kg/m² according to system, refer the System Data Sheets MASTERTOP 1270 and MASTERTOP 1270 R.

Tested systems

The following system tests are available for MASTERTOP BC 370 :

MASTERTOP 1270 and MASTERTOP 1270 R

However, the material can also be used in other system combinations and structures.

Cleaning agent

Re-usable tools must be cleaned carefully with Cleaner 44 or with e.g. isopropanol.

Pack size

MASTERTOP BC 370 is supplied in 30 kg working packs.

Colour

RAL 1001, 5014, 5023, 7030, 7032, 7035, 7040 (standard)

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


Storage

Store in original drums, under dry conditions and a temperature ranging from 15-25 °C to direct sunlight and prevent the temperature from falling below the above mentioned range (crystallization). Under these conditions the material has a shelf life of 12 months. For maximum shelf life under these conditions, see "Best before " label.

Warning and precautions

In its cured state, MASTERTOP BC 370 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.


BASF Construction Chemicals (Schweiz) AG Industriestrasse 26 CH-8207 Schaffhausen
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EN 13813 SR-B1,5-AR1-IR4-C_{fl}
Synthetic resin screed/coating for use in buildings (system build-ups according to the respective technical data sheets)
Fire behaviour: C _{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