

MasterTop[®] BC 372 TIX

A two component, non-solvented (total solid), epoxy self-leveling floor coating with low emissions

PRODUCT DESCRIPTION

A two component, non-solvented (total solid), thixotropic, epoxy floor coating with low emissions.

FIELDS OF APPLICATION

MasterTop[®] BC 372TIX is applied indoors as a thixotropic coating in system build-up **MasterTop[®] 1273 S** which is suitable for light to medium duty industrial environment. **MasterTop[®] BC 372TIX** is applied to substrates such as concrete and cement screeds.

FEATURES AND BENEFITS

- exhibits excellent mechanical strength
- low emissions
- abrasion resistant
- easy to apply
- easy to clean and maintain despite the structured surface
- 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.
- yellowing, when used in UV-exposed areas, does not impair the technical properties of the body coat.

APPLICATION METHOD

MasterTop[®] BC 372TIX is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, pre-condition 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 372TIX** is applied to the prepared substrate, using a notched trowel or scraper. Immediately after the application, the surface will be rolled out in one way with a structured roller.

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. Car-bamate has a marked effect of the coating and has to be removed.

SUBSTRATE PRE-TREATMENT

MasterTop[®] BC 372TIX 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. Pretreatment is only necessary when the re-coating interval of the primer has been exceeded. If necessary, the primer 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 3K above the current dew point temperature. A damp proof course must have been properly installed and intact. In addition to this, the respective guidelines for the application of reactive resins on substrates must be observed.

CONSUMPTION

ca. 0,7 – 0,8 kg/m² depending on the roughness of the surface.

For more information, please refer to the System Data Sheet **MasterTop[®] 1273 S**.

CLEANING AGENT

Re-usable tools must be cleaned carefully with **MasterTop[®] CLN 44** or with e.g. isopropanol.

PACKAGING

MasterTop[®] BC 372TIX is supplied in 31 kg working packs. Supply in drums possible (only on demand).

COLOUR

MasterTop[®] BC 372TIX is available in the following RAL colours:

RAL 7022, 7032, 7035 and 7037

STORAGE

Store in original drums under dry conditions and a temperature between 15-25°C. Do not expose to direct sunlight and prevent the temperature from falling below the above mentioned range (crystallisation). For maximum shelf life under these conditions, see „Best before.“ label.

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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 372TIX** is < 500 g/l (for the ready to use product).

WARNING AND PRECAUTIONS

In its cured state, **MasterTop® BC 372TIX** 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. The regulations of the local trade association and/or other authorities, regulating safety and hygiene of workers handling epoxy resins must be observed.

CONTACT INFORMATION

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MasterTop® BC 372 TIX Technical Data Sheet -Revision
Date: 02/2023

Technical Data *				
Mix ratio			by weight.	100:17
Density	Part A	at 23°C	g/cm ³	1,71
	Part B	at 23°C	g/cm ³	1,02
	Mixed	at 23°C	g/cm ³	1,60
Viscosity	Part A	at 23°C	mPa.s	thixotropic
	Part B	at 23°C	mPa.s	150
	Mixed	at 23°C	mPa.s	6000
Pot-life		at 23°C	min	30
Re-coating interval/ready for traffic		at 10°C	Saat	Min. 30
		at 23°C	Gün	Max. 3
		at 23°C	Saat	Min. 10
		at 23°C	gün	Max. 2
Fully cured/ready for exposure to chemicals		at 20°C	gün	5
Substrate and application temperatures			°C	Min. 10
			°C	Max. 30
Max. permissible relative humidity		at any T°C	%	75
Technical data cured material*				
Shore-D hardness after 7 days				70
Fire classification according to ÖNORM EN 13501-1 (Consumption: 200 g/m ²)				D-s1
Taber abrasion after 28 days at 23°C	CS 10, 1KG, 1000U		mg	28

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

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1020 Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti. Adres: Barbaros Mah. Begonya Sok. Nidakule Kuzey Ataşehir, C Kapısı No:3 E/5, 34746 Ataşehir İstanbul 20 DOP NO : 02.1504.2.012 1020 – CPR – 040 065838 EN 1504-2: 2004 MASTERTOP BC 372 TIX Beton Yapıların Korunması ve Tamiri İçin Mamuller ve Sistemler. Bölüm:2 Beton için Yüzey Koruma Sistemleri (Products and systems for the protection and repair of concrete structures Part 2: Surface protection systems for concrete)	
1.3 Yabancı madde girişine karşı koruma, 2.2 Nem Kontrolü, 5.1 Fiziksel Direnç, 8.2 Nem içeriğini sınırlayarak direnci artırma amaçlı kaplama malzemesi (Principles: 1.3 Protection against ingress, 2.2 Moisture control, 5.1 Physical resistance, 8.2 Increasing resistivity)	
CO ₂ Geçirgenliği (Permeability to CO ₂)	CO ₂ S _D Geçirgenliği > 50m (CO ₂ S _D permeability > 50m)
Su Buharı Geçirgenliği (Permeability to water vapour)	Sınıf III (Class III)
Kapiler Su Emme ve Su Geçirgenliği (Capillary absorption and permeability to water)	w<0,1 kg /m ² .√h
Çekip Koparma Deneyi Yoluyla Yapışma Dayanımı (Adhesion strength by pull-off test)	Rijit Sistemler Trafik yüküyle birlikte:>2,0 N/mm ² (1,5 min) (Rigid Systems With trafficking:>2,0 N/mm ² (1,5 min)
Aşınma Direnci (Abrasion Resistance)	Ağırlık Kaybı <3 g
Çarpmaya Direnç (Impact resistance)	Sınıf II : 10 Nm Deformasyon yok (Class II : 10 Nm No deformation)
Yangına karşı tepki (Reaction to fire)	D-s1;d0
Tehlikeli maddeler (Dangerous substances)	Madde 5.3 ' e uygun (Comply with clause 5.3)