MasterCoat® ER 372 Thix

A Two Component, Non-Solvented (Total Solid), Epoxy Thixotropic Floor Coating with Low Emissions

Material Description

MasterCoat® ER 372 Thix, a two component, non-solvented (total solid), thixotropic, epoxy floor coating with low emissions.

Areas of Application

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

Technical Properties

Structure of the Material **MasterCoat® ER 372 Thix** Part A **MasterCoat® ER 372** Part B	 Epoksi Resin Epoksi Hardener
Color	RAL Colours
Density (23°C) Part A Part B Mixture	 1,75 g/cm³ 1,05 g/cm³ 1,65 g/cm³
Viscosity (23°C) Part A Part B Mixture	 Thixotropic 150 mPa.s 8500 mPa.s
Pot Life (23°C)	70 min.
Re-coating Interval / Ready for Traffic 10°C 23°C	 Min. 30 hours Max. 3 days Min. 10 hours Max. 2 days
Compressive Strength (TS EN 13892-2) (28 days)	≥ 50 N/mm²
Flexural Strength (TS EN 13982-2) (28 days)	≥ 20 N/mm²
Adhesion Strength (EN 1542)	> 2,0 N/mm² (1,5 min) (Concrete breakage)
Fully Cured / Ready for Exposure to Chemicals (20°C)	5 days
Substrate and Application Temperatures (°C)	Min. 10 Maks. 30
Max. Permissible Relative Humidity	% 75
Shore D Hardness (7 days)	70
Taber Abrasion (23°C) (28 days)	101 mg (*H-22 , 1000 gr, 1000 U) 28 mg (*CS10 , 1000 gr, 1000 U)

The above figures are intended as a guide only and should not be used as a basis for specifications.
**H-22 This wheel produces a coarse abrasion effect. It is used to test rubber, linoleum, leather, deep pile fabrics (such as car floor coverings), and concrete.*
**CS10 This resistant wheel provides light to moderate abrasion, similar to that which occurs during normal use, cleaning, and polishing. This popular wheel can be used to test various materials, including organic coatings, plastics, textiles, leather, and paper products. Resurface with the S-11 resurfacing disc.*

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Characteristics 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.

Processing Method

(A) Preparation of Substrate

MasterCoat® ER 372 Thix 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/mm^2 (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.

(B) Mixing

MasterCoat® ER 372 Thix 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.

(C) Processing

After mixing, MasterCoat® ER 372 Thix 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. Carbonation has a marked effect of the coating and has to be removed.

Consumption

ca. 0,7 – 0,8 kg/m^2 depending on the roughness of the surface.
For more information, please refer to the System Data Sheet MasterCoat® 1273 S .

Cleaning of Tools

All the tools and equipments must be cleaned by isopropanol.

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Packaging

MasterCoat® ER 372 Thix comes in 31 kg sets and consists of the following components.
Part A: **MasterCoat® ER 372 Thix** 26,5 kg tin
Part B: **MasterCoat® ER 372** 4,5 kg tin

Shelf Life

Maximum shelf life is 12 months from the date of production under appropriate storage conditions.

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.

Health and Safety

In its cured state, **MasterCoat® ER 372 Thix** 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.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

Contact

MBT Teknik Yapı Kimyasalları San. ve Tic. A.Ş.
Eyüp Sultan Mah. Sekmen Cad. Hayy 1000A No:26/8
Sancaktepe, İstanbul
Tel: 0216 561 35 45 www.mbt-tech.tr

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MBT TEKNİK YAPI KİMYASALLARI SAN. VE TİC. A.Ş.

Eyüp Sultan Mah. Sekmen Cad. HAYY 1000A No:26 K:5 D:8, 34885 Sancaktepe, İstanbul, Türkiye

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DOP NO: 1201002

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MasterCoat® ER 372 Thix

TS EN 1504-2:2004
1.3 Yabancı madde girişine karşı koruma, 2.2 Nem Kontrolü, 5.1 Fiziksel Direnç, 8.2 Nem içeriğini sınırlayarak direnci artırma
1.3 Protection against ingress, 2.2 Moisture control, 5.1 Physical resistance, 8.2 Increasing resistivity

Beton için yüzey koruma sistemleri
Surface protection systems for concrete

Kaplama uygulaması
Coating application

Aşınma Direnci (Abrasion Resistance)	< 3000 mg
Karbondioksit Geçirgenliği (Permeability to CO_2)	> 50m SD
Su Buhar Geçirgenliği (Permeability to water vapour)	Sınıf I Class I
Kapiler Su emme ve Su geçirgenliği (Capillary absorption and permeability to water)	w<0,1 kg /m².√h
Çarpmaya Direnç (Impact resistance)	Sınıf II : 10 Nm Class II : 10 Nm
Çekip koparma deneyi (Adhesion strength by pull-off test)	Rijit sistemler trafik yük ile birlikte: ≥2 N/mm² Rigid systems with traffic load
Yangına karşı tepki (Reaction to fire)	D-s2,d0
Tehlikeli maddeler (Dangerous substances)	Madde 5.3 'e uygun (Comply with clause 5.3)