

MasterCoat[®] ER 372 AS

A Two Component, Non-Solvented, Self-Leveling Anti-Static Epoxy Coating, According to EN 1081

Material Description

MasterCoat[®] ER 372 AS, is a non-solvented (total solid), pre-filled and pigmented, two-component, self-levelling and anti-static epoxy coating.

Areas of Application

MasterCoat[®] ER 372 AS is for indoor use where an anti-static floor coating is required. MasterCoat[®] ER 372 AS is suitable

for applications to mineral substrates such as concrete or cement mortar screeds, primed with MasterCoat[®] PRI 687 W AS (conductive primer). MasterCoat[®] ER 372 AS resists medium to heavy industrial traffic

Characteristics and Benefits

- Conductive floor coating
- Exhibits excellent mechanical strength and anti-static properties

Technical Properties

Structure of the Material MasterCoat [®] ER 372 Part A MasterCoat [®] ER 372 AS Part B	Epoksi Resin Epoksi Hardener
Color	RAL Colours
Density (23°C)	Part A 1,65 - 1,70 g/m ³ Part B 0,96 - 1,04 g/m ³ Mixture 1,45 - 1,55 g/m ³
Viscosity (23°C)	Part A 5200 - 6000 mPa.s Part B 470 - 540 mPa.s Mixture 2000 - 2400 mPa.s
Pot Life (23°C)	40 min.
Re-coating Interval / Ready for Traffic (20°C)	Min. 15 hours Max. 2 days
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)	80
Taber Abrasion (23°C) (28 days)	50 mg (*CS10, 1000gr, 1000U) 114 mg (*H-22, 1000gr, 1000U)
Resistivity (Resistance to ground) (EN 1081)	10 ⁴ -10 ⁶ Ohm
Compressive Strength (TS EN 13892-2) (28 days)	65 N/mm ²
Flexural Strength (TS EN 13982-2) (28 days)	30 N/mm ²
Adhesion Strength (EN 1542)	2,0 N/mm ² (1,5 min) (Concrete breakage)

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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- 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.
- 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 AS 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 recoating 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 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 AS is supplied in working packs which are pre-packaged in the exact ratio.

The part A is the same as **MasterCoat® ER 372**. The Part B contains the conductive fibres. **Therefore you have to mix MasterCoat® ER 372 part A and MasterCoat® ER 372 AS part B. Pay attention to use MasterCoat® ER 372 AS part B.** Before mixing, precondition both A and B components to a temperature of approximately 15 to 25°C. **Mix first the part B separately in order to ensure the homogeneity of the conductive fibers.** Pour the entire contents of part B into the

container of part A. It is important to ensure that the component B completely runs out with the conductive fibers. **If necessary, part B must be scratched out with the last conductive fibers.**

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 AS** is applied to the prepared substrate **MasterCoat® PRI 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. 24h (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 on the conductivity of the coating and has to be removed. In addition to this, the respective guidelines for the application of reactive resins on substrates must be observed.

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Consumption

2.3 – 2.6 kg/m² according to system

Cleaning of Tools

All the tools and equipments must be cleaned by isopropanol.

Packaging

MasterCoat® ER 372 AS is supplied in 30,1 kg working packs.

Part A: MasterCoat® ER 372 25,5 kg tin

Part B: MasterCoat® ER 372 AS 4,6 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 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. 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.

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