

MasterTop BC 372

A two component, non-solvented (total solid), epoxy self-leveling floor coating with low emissions specific for industrial floors of the MasterTop 1200 series line.

MATERIAL DESCRIPTION

MasterTop BC 372 is a two-component, self-leveling smooth-finish epoxy resin for continuous flooring with high mechanical performance and durability.

Basic coating of systems MasterTop 1273, 1273 E, 1273 R.

FIELDS OF APPLICATION



MasterTop BC 372 is typically used in interventions in manufacturing, chemical and pharmaceutical industries (areas subject to high hygiene standards, clean rooms and sterile rooms), showrooms, shops, storage areas, production areas.

FEATURES AND BENEFITS

MasterTop BC 372 has the following peculiarities:

- AgBB certified for low emissions in indoor work environments;
- certified as decontaminable flooring for use in nuclear power plants (Cs-137, Co-60);
- withstands impacts, wear and tear and frequent traffic;
- resists the chemical attack of hydrocarbons, mineral oils, salts and various diluted bases and acids;
- has no joints, facilitates and simplifies cleaning and improves the general comfort of the environment;
- it does not constitute a nutritional environment for the growth of bacteria;
- responds to the Legislative Decree of the Government n° D. Lgs. 193/2007 "EC Regulation 852/2004 concerning the hygiene of food products" (H.A.C.C.P.);
- easy to clean and easy to apply.

In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 13813 and UNI EN 1504-2 and the relative DoP (Declaration of Performance).

	
1305	1305
EN 13813	EN 1502
Synthetic resin screed for internal uses	Surface protection products – Coating

CONSUMPTION

Refer to the technical data sheet of the MasterTop 1273, 1273 E, 1273 R systems.

STORAGE

Store the material in the original containers, in a dry and covered place at a temperature between 15 and 25°C. Do not expose to direct sunlight.

PACKAGING

(A + B) = 30 kg (A 25,5 kg, B: 4,5 kg)

Technical data	
Mixing ratio	100 A / 18 B
Density at 20°C	ca. 1,54 kg/l
Kinematic viscosity	ca. 1850 mPa·s
Workability time at 23°C	30 minutes
Maximum relative humidity	75%
Recoating time	10°C: 30 - 72 h 23°C: 10 - 48 h
Complete hardening time at 20°C	5 days
Shore D Hardness at 7 days	81
Taber abrasion after 28 days (CS 10,1kg1000U)	28 mg
Compressive strength (UNI EN 12190)	>80 MPa Class C
Adhesion to concrete, UNI EN 13892/8 on MC (0.40) UNI EN 1766 substrate	Class B >1,5
Tensile strength for bending, UNI EN 13892/2	>30 MPa Class F>30
Flexural modulus of elasticity UNI EN ISO 178	2730 MPa Class E5
Impact resistance UNI EN ISO 6272	> IR20
Abrasion resistance UNI EN 13892/4 (BCA)	Class AR0,5
Fire reaction class UNI EN 13501	Bfl-S1
Coefficient of linear thermal expansion, UNI EN 1770	1,02·10 ⁻⁴ K ⁻¹
Coefficient of capillary absorption UNI EN 1062/3	0,01 kg·m ⁻² ·h ^{-0,5}
Thermal characteristics UNI EN 12664	
Specific thermal resistance	0,038 m ² ·K·W ⁻¹
Specific thermal conductivity	0,501 W·m ⁻¹ ·K ⁻¹

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APPLICATION SHEET

For every application detail (preparation of the substrate, primer and other parameters) refer to the "MasterTop Industrial Floors Application Manual".

CHARACTERISTICS OF THE SUPPORT

The cementitious substrate must have minimum compressive strength class C20 / 25 for concrete according to UNI EN 206/1 and C25 for cementitious screeds CT according to UNI EN 13813.

In the case of screeds of other chemical nature required by UNI EN 13813, such as those based on calcium sulphate CA or magnesite MA or other types, contact the technical service of Master Builders Solutions for further information.

SUPPORT REPAIR AND LEVELING

Before applying the coating, it is essential to check that the concrete surfaces to be protected are not degraded and / or contaminated by oils, greases or other substances, in which case the incoherent and contaminated concrete must first be removed and then restored with MasterTop 514 QD

PREPARING THE SUBSTRATE

The surface must be prepared by shot peening or sandblasting. Other specific techniques can also be used in specific cases (the choice of the same is to be evaluated following a site visit). Dust the surface before proceeding with the application of the primer. MasterTop BC 372 tolerates a maximum substrate humidity of 4%.

HUMIDITY AND CAPILLARY RISING

The MasterTop BC 372 system cannot be applied directly to surfaces that are damp and / or without a vapor barrier or subject to rising damp. In such situations it is necessary to provide for the application of the specific primer MasterSeal P 385 at a rate of 1.5 kg / m² or of MasterTop 514 QD in the epoxy-cement version (3k) for a minimum thickness of 3 mm.

TEMPERATURE

MasterTop BC 372 must be applied when the ambient temperature (minimum 8°C and maximum 30°C) remains constant or decreases, since this device allows to reduce the risk of "blowing" linked to the escape of air present in the porosity of the concrete. In addition, this temperature

must always be 3°C higher than the dew point from the time of application and for at least the next 24 hours (at 15°C).

MIXING

Mix the two components separately with an electric mixer, then pour all of component B into the can of component A and mix until a homogeneous system is obtained.

After obtaining a homogeneous consistency, pour the resin into a new container and mix for another minute. Slowly add the 0.1-0.3 mm MasterTop F 1 quartz filler up to a maximum of 50% by weight. Mix the material at low speed for a few minutes, until completely homogenized.

APPLICATION

After mixing, apply MasterTop BC 372 on the substrate, distributing it with a notched doctor blade (V-shaped teeth or spatula). To facilitate the escape of air bubbles that may be incorporated into the product, it is necessary to pass the surface of the material with a suitable bubble-breaking roller 5 - 10 minutes after applying the product. Protect from contact with humidity for the first 24 hours (at 20°C).

CLEANING

Tools used for mixing and applying the material can be cleaned with epoxy thinner.

FLOOR CLEANING

For every detail relating to the cleaning aspects of the floor, always refer to the specific document "MasterTop Linea Industrial Cleaning".

WARNINGS

MasterTop products are for professional use. For further information, consult the Master Builders Solutions Italia Spa area technician.

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SAFETY INSTRUCTION

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

OTHER SERVICES

For price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website www.master-builders-solutions.com/it-it or contact infomac@mbcc-group.com.

Scan the QR code to visit the product page and download the latest version of this datasheet.



Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

Master Builders Solutions Italia Spa

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Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.