

MasterCoat® PR 375 N

Polyurethane Based, Two Component, Non-Solvented, Low Emission, Self Levelling

Material Description

MasterCoat® PR 375 N is a non-solvented, low emission, pre-filled, 2K-self-levelling polyurethane floor coating.

Areas of Application

MasterCoat® PR 375 N is used indoors where medium to heavy traffic is required. MasterCoat® PR 375 N is suitable for applications to mineral substrates such as concrete or cement mortar floor screeds, which have been primed with a 2K-EP primer.

Characteristics and Benefits

- Low emission according to AgBB
- Excellent self-levelling properties
- Excellent mechanical properties
- Abrasion resistant
- Hard wearing
- Excellent de-aeration
- Easy to clean and maintain
- Statical crack bridging
- Good chemical resistance
- Yellowing, when used in UV-exposed areas, does not impair the technical properties of the body coat (the application of a pigmented top coat like MasterCoat® TC 468 is recommended to prevent the yellowing of the surface and to improve the scratch resistance)

Technical Properties	
Colours	RAL Colours
Density (23°C)	Part A 1,45 - 1,55 g/cm ³ Part B 1,20 - 1,25 g/cm ³ Mixed 1,4 - 1,5 g/cm ³
Viscosity (23°C)	Part A 3400 - 5000 mPa.s Part B 80 - 120 mPa.s Mixed 1600 - 2000 mPa.s
Mix Ratio (by weight)	100:22
Pot Life (23°C)	30 min.
Re-coating interval/ready for traffic (23°C)	Min. 12 saat – Max. 3 gün
Fully cured/ready for exposure to chemicals (23°C)	7 gün
Substrate and application temperatures	Min. 5°C - Max. 30°C
Max. permissible relative humidity	% 75
Technical Properties (Cured Material)	
Elongation at Break (DIN 51504)	% 10
Shore D Hardness	70

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

Note: Aromatic polyurethanes as MasterCoat® PR 375 N tend under UV influence (in indoor and outdoor areas) to yellowing.

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Processing Method

(A) Preparation of Substrate

MasterCoat® PR 375 N must be applied to primed substrates. 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 recoating interval of layer before has been exceeded. 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 has to be installed and must be intact.

(B) Mixing

MasterCoat® PR 375 N 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® PR 375 N** is applied to the substrate coated with a primer, using a notched trowel or scraper. The tooth size should be selected according to the required layer thickness (take care not to go below min. recommend coverage rate or 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, the substrate and the 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.

Consumption

Depending on the application thickness, the consumption of **MasterCoat® PR 375 N** is approximately 2.0 – 2.5 kg/m².

ca. 2,0 – 2,5 kg/m²

Cleaning of Tools

All the tools and equipments must be cleaned by solvent naphta after the application. After **MasterCoat® PR 375 N** is hardened, it can only be removed from the surface mechanically.

Packaging

30 kg set

MasterCoat® PR 375 N Part A: 24,6 Kg

MasterCoat® PR 375 N Part B: 5,4 Kg

Shelf Life

The shelf life is 12 months from the date of production under suitable storage conditions.

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Storage

Store in original drums, under dry conditions and a temperature ranging from 15 - 25°C. Do not expose to direct sunlight and keep the temperature within the above mentioned range

Health and Safety

MasterCoat® PR 375 N is physiologically non-hazardous in its cured condition.

The following protective measures should be taken when working with the material:

Avoid inhaling the fumes and contact with the skin. Wear safety gloves and goggles. 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 polyurethane and isocyanate 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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