

Duracon® 107

Primer for Duracon® flooring systems on metal and tile substrates

Key Benefits Summary:

- Exhibits excellent adhesion to ferrous metal and ceramic tile substrates.
- Easy to apply

Product Information:

Description:

Duracon® 107 is a low viscosity, colourless, 3 component reactive resin based on methyl methacrylate (MMA), an additive and Duracon® Catalyst.

Usage:

Duracon® 107 is used as a primer to give excellent bonding to metal substrates (e.g. iron, aluminium, stainless steel) and to ceramic tile substrates.

Duracon® 107 is not suitable for non-ferrous heavy metals and zinc. It must only be used as supplied; do not dilute or fill. We strongly recommend with all Duracon® primers that curing and adhesion tests are conducted on the particular substrate prior to general use on site.

Packaging:

Duracon® 107 resin: 180 kg steel drums, 50 kg metal pails, 20kg pails.
Duracon® 107 additive: 1kg bottle, injection syringe.
Other quantities are available on request.

Shelf Life:

6 months when stored in a cool and dry place and in originally closed packaging. Keep additive and catalyst separate. The optimal storage temperature is 15-20°C.

Technical Information:

Technical Characteristics (liquid state)

| | | |
|-----------------------------------|--------------|----------------|
| Viscosity, 25°C: | 100-130mPa*s | DIN 53214 |
| Density, 25°C: | 0.99 g/ml | DIN 51757 |
| Pot life/processing time at 20°C: | | approx 15 min. |
| Curing time at 20°C: | | approx 30 min. |
| Flash Point: | +11.5°C | ISO 1516 |

Technical Characteristics (cured state)

| | | |
|------------------------------|------------------------|-----------|
| Tensile Strength: | 10.3 N/mm ² | DIN 53455 |
| Elongation at max. strength: | 0.62% | |
| Elongation at fracture: | 0.62% | |
| Modulus of elasticity: | 1990 N/mm ² | |
| Density, 20°C | 1.16 g/cm ³ | DIN 53479 |

Please note that an objective comparison with other data is only possible if norms and parameters are identical.

Usage Guidelines:

Substrate Preparation:

All substrates must be dry, firm, solid and free of dust, fat and oil. With the substrates the glazed surface layer must be removed prior to applying the primer (e.g. by flame blasting). Loose tiles and tiles over hollows must also be removed. Steel substrates must be prepared to SA 2.5 (according to DIN55929).

For further details, see our "General Preparation and Application guidelines for Duracon® floor protection systems".

Mixing:

Prior to use, Duracon® 107 must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. Duracon® 107 additive is added to the basic resin as a 0.3% additive by means of an injection syringe. The primer mix is thoroughly mixed together with the Duracon® CATALYST (50% dibenzoyl peroxyde), in accordance with the below guidelines.

It should be noted that the amount of catalyst powder to be added depends upon the temperature.

| | |
|-----------|--|
| At 30°C | add 1% by weight of resin |
| At 20°C | add 2% by weight of resin |
| At 10°C | add 4% by weight of resin |
| At 0°C | add 6% by weight of resin |
| Below 0°C | add 6% by weight of resin and additionally add Duracon® 404, which is an accelerating agent. |

Note: Weight to Volumetric conversion of Catalyst.
1 cm³ of Duracon® CATALYST weights 0.64 g
1 g of Duracon® CATALYST = 1.57 cm³

0.3% by weight of Duracon 107 additive is added to Duracon 107 basic resin with the aid of an injection syringe.

Note: Conversion into ml of additive
1g of Duracon 107 additive is 0.83ml

| For example: | resin | additive | additive |
|--------------|-------|----------|----------|
| | 1kg | 3g | 2.5ml |
| | 2kg | 6g | 5.0ml |
| | 5kg | 15g | 12.5ml |
| | 10kg | 30g | 25.0ml |

Application:

After the catalyst has been stirred in, the primer is applied with a short-pile paint roller with a consumption of ±0.3 kg/m². Fire-dried quartz sand (particle size 0.7-1.2 mm or 0.3-0.7mm) is broadcasted into the still wet primer.

Consumption approximately 0.3 kg/m²
For further details see our "General Preparation and Application guidelines for Duracon® floor protection system".

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Important Advice:

The basic resin mixed with Duracon® 107 additive must be applied immediately, as storage stability is not given in a mixed state. The additive should therefore only be stirred into the basic resin directly before use.

Health & Safety:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon® 107.

In case of contact with eyes rinse immediately for a long period of time and consult a physician. In case of contact with skin clean immediately with water and soap.

Duracon® 107 is highly flammable; keep away from heat and all sources of ignition and do not smoke. The stirrer as well as all the other electric appliances used on the application site must be explosion-proof versions. For further information see our Material Safety Data Sheets.

Guarantee:

RPM/Belgium N.V. and Alteco Technik GmbH warrant all goods to be free from defects and will replace materials proven to be defective.

The information and recommendations herein are believed by RPM/Belgium N.V. and Alteco Technik GmbH to be accurate and reliable.

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