

Duracon[®] 106

Primer for Duracon[®] Flooring Systems

Key Benefits Summary:

- For use on asphalt substrates
- Good curing properties and adhesion
- Accepts fillers
- Easy to apply

Product Information:

Description:

Duracon[®] 106 is a medium viscosity, colourless, 2 component reactive resin based on methyl methacrylate (MMA).

Usage:

Duracon[®] 106 is a special primer for the application of Duracon[®] Floor Coating Systems onto filled asphalt/bitumen substrates. We strongly recommend with all Duracon[®] primers that curing and adhesion tests are conducted on the particular substrate prior to general use on site. For Duracon[®] 106, it is especially important to test the substrates inclination to deform under load.

Packaging:

180 kg steel drums, 50 kg metal pails.

Shelf Life:

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

Technical Information:

Technical Characteristics (liquid state)

| | | |
|-----------------------------------|--------------|----------------|
| Viscosity, 25°C: | 180-240mPa*s | DIN 53214 |
| Density, 25°C: | 1.00 g/ml | DIN 51757 |
| Pot life/processing time at 20°C: | | approx 10 min. |
| Curing time at 20°C: | | approx 30 min. |
| Flash Point: | +11.5°C | ISO 1516 |

Technical Characteristics (cured state)

| | | |
|------------------------------|------------------------|-----------|
| Tensile Strength: | 6.7 N/mm ² | DIN 53455 |
| Elongation at max. strength: | 141% | |
| Elongation at fracture: | 141% | |
| Modulus of elasticity: | 117 N/mm ² | |
| Density, 20°C | 1.12 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:

The substrate must be dry (maximum 4% residual humidity), firm, solid and free of dust, fat and oil. All loose and soft particles must be thoroughly removed, e.g. by shot blasting. Fats or oils as well as humidity can be removed by for example flame blasting. A minimum of 50% of aggregate particles are to be exposed through scarifying or shotblasting.

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

Mixing:

Prior to use, Duracon[®] 106 must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. Duracon[®] 106 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

Application:

After the catalyst has been stirred in, the primer is poured onto the substrate in stripes and distributed with a short-pile paint roller. A notched rubber squeegee can be used for fast distribution of large quantities. Apply at a rate of between 300 gr/m² to 500 gr/m² depending on the density and porosity of the substrate. In any case, continue applying primer until the saturation occurs to obtain a continuous resin film. On extremely porous substrates a second prime coat may be required. When a continuous resin film is obtained, broadcast fire-dried quartz sand (particle size 0.7-1.2 mm or 0.3-0.7 mm) 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".

Health & Safety:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon[®] 106. 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[®] 106 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.

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PRODUCT
DATA
SHEET

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.

Equus Industries Ltd
PO Box 601
Blenheim
Phone: 03 578 0214
Email: admin@equus.nz
Web: www.equus.nz