

Duracon® 301

Key Benefits Summary:

- Hard and abrasion resistant
- Excellent chemical resistance
- Easy to apply
- For heavily trafficked areas

Product Information:

Description:

Duracon® 301 is a low viscosity, UV-resistant, blue-violet, 2 component reactive resin based on methyl methacrylate (MMA). After polymerisation the blue-violet colouring is no longer visible.

Usage:

Duracon® 301 should only be used as a sealer on Duracon® systems BC, TR and L.

Duracon® 301 is particularly suited in dry areas with the demand of high resistance against abrasion and chemicals.

Important Advice:

A permanent water loading can result in a white discolouration of the Duracon® 301 sealer. In such service conditions we generally recommend the use of Duracon® 306 or a combination of Duracon® 306 and Duracon® 305. Please consult our Technical Service Department. Where Duracon® 301 is used in areas of hot water loading, always gather waste or flowing water (particularly hot water) into channels and convey it into a proper drainage system. Provide for sufficient number of gullies.

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:	70-90 mPa*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:	40 N/mm ²	DIN 53455
Elongation at max. strength:	1.7%	
Elongation at fracture:	1.7%	
Modulus of elasticity:	3140 N/mm ²	
Density, 20°C	1.19 g/cm ³	DIN 53479

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

Usage Guidelines:

Substrate Preparation:

The Duracon® coating system to be sealed must be dry, clean, free of dust and fat. Any fresh Duracon® coating system must be completely cured and cooled down. As a general principle all Duracon® coating systems can be resealed with the same Duracon® sealer without any difficulty.

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

Mixing:

Prior to use, Duracon® 301 must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. Duracon® 301 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 1.0% by weight of resin
At 20°C	add 1.5% by weight of resin
At 10°C	add 3.0% by weight of resin
At 0°C	add 5.0% by weight of resin
Below 0°C	add 5.0% 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 sealer is poured onto the floor in stripes (do not apply directly out of the mixing pails) and distributed onto the coating with a short-pile paint roller. On sanded coatings the sealing can be pre-spread before rolling with a notched rubber squeegee. To avoid any possible formation of micro-bubbles in the sealer surface it is important to work with freshly mixed material, i.e. to catalyze smaller batches. Material shall be spread and rolled immediately to an even layer thickness of not more than 400 microns. If a thicker layer is required it must be applied in two separate coats.

Consumption of Duracon® 301 sealer is between 0.3 and 0.8 kg/m² depending on the density and roughness of the Duracon® coating system onto which it is applied.

461

2 pages

PRODUCT
DATA
SHEET

Health & Safety:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon® 301. 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® 301 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 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 Fax 03 578 0919
Email: admin@equus.co.nz
Web: www.equus.co.nz