

Duracon® 305

A general purpose sealer for Duracon® flooring systems

Key Benefits Summary:

- Multi-purpose surface sealer
- Wear resistance to many chemicals
- Good curing properties
- For wet and dry production areas

Product Information:

Description:

Duracon® 305 is a low viscosity, elastic, UV-resistant, 2 component reactive resin based on methyl methacrylate (MMA). In the liquid state it is blue-violet in colour. After polymerisation the blue-violet colouring is no longer visible.

Usage:

Duracon® 305 should only be used as a sealer on Duracon® coating systems BC, TC and L.

Duracon® 305 is for general purpose use. For system BC and L on areas exposed to frequent water load we recommend the first sealcoat layer to be done with Duracon® 306 followed by a second coat of Duracon® 305.

Important Advice:

A permanent water loading can result in a white discoloration of the Duracon® 305 sealer. Therefore always gather waste or flowing water (particularly hot water) into channels and convey it into a proper drainage system. Provide for a 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:	40-60mPa*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:	42 N/mm ²	DIN 53455
Elongation at max. strength:	2.9%	
Elongation at fracture:	4.0%	
Modulus of elasticity:	2600 N/mm ²	
Density, 20°C	1.18 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 Duracon® coating system to be sealed must be dry clean and free of 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® 305 must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. Duracon® 305 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 0.6% by weight of resin
At 20°C	add 1.0% by weight of resin
At 10°C	add 1.5% by weight of resin
At 0°C	add 3.0% 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:

Immediately 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 on to the coating with a short-pile paint roller. On sanded coatings the sealing can be pre-spread before rolling with a notched rubber squeegee. Consumption is approximately 0.3 kg/m², depending on the structure of the substrate. To avoid any possible formation of microbubbles in the sealer surface it is important to work with freshly mixed materials, 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.

Health & Safety:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon® 305. 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® 305 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.

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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.

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