DURACON® 305

A GENERAL PURPOSE SEALER FOR DURACON® FLOORING SYSTEMS

KEY BENEFIT SUMMARY

- Multi-purpose surface sealer
- Wear resistant
- Excellent resistance to many chemicals
- Very reactive
- For wet and dry production areas

PRODUCT INFORMATION

Description

Duracon® 305 is a low viscosity, 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, TR and L.
Duracon® 305 is for general-purpose use. The combination of the excellent wear resistance and resistance to chemicals makes Duracon® 305 very suitable as a sealer for floor finishes within the food processing industry. The increased reactivity permits Duracon® 305 to be applied in thinner layers than most other surface sealers even under relatively cold conditions.

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, 20 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 - 60 mPa*s	DIN 53018
Density, 25°C:	1.00 g/ml	ISO 2811
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/mm²	ISO 527
Elongation at maximum strength:	2.9 %	
Elongation at fracture:	4.0 %	
Modulus of elasticity:	2600 N/mm²	
Density, 20°C:	1.18 g/cm³	ISO 1183

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, 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 re-sealed with the any Duracon® sealer after proper cleaning.
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 2.0% by weight of resin
< 0°C	add 3.0% by weight of resin
below -10°C	add 4.0% by weight of resin and additionally add Duracon® 404, which is an accelerating agent.

Please contact our Technical Service Department for further details.

Note: Weight to Volumetric conversion of Catalyst.
1 cm³ of Duracon® CATALYST weighs 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 onto the coating with a short-pile paint roller. On structured coatings the sealing can be pre-spread before rolling with a notched rubber squeegee. Consumption is approximately 0,3 kg/m² and layer, 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 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.
For further details see our „General Preparation and application guidelines for Duracon® floor protection systems".

HEALTH AND SAFETY PRECAUTIONS

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.

TECHNICAL SERVICE

Contact RPM/Belgium N.V. / Alteco Technik GmbH.

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.