

Duracon® 307

Sealer for Duracon® flooring systems

Key Benefits Summary:

- Low viscosity easy spreading
- For medium duty applications
- Especially for smooth surfaces

Product Information:

Description:

Duracon® 307 is a low viscosity, UV-resistant, blue-violet, 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® 307 is intended to be used as a surface sealer for Duracon® floor coatings with a smooth or light slip-resistant surface structure. Typically Duracon® 307 will be used for the systems Duracon® TR and SL with or without flakes.

Important Advice:

Permanent water immersion can result in a white discoloration of the Duracon® 307 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® 307 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 a sufficient number of gullies.

Packaging:

180 kg steel drums, 18 kg metal pails.

Technical Information:

Technical Characteristics (liquid state)

Viscosity, 25°C:	70-90mPa*s	DIN 53018
Density, 25°C:	0.99 g/ml	ISO 2811
Pot life/processing time at 20°C:		approx 15 min.
Curing time at 20°C:		approx 40 min.
Flash Point:	+11.5°C	ISO 1516

Technical Characteristics (cured state)

Tensile Strength:	14.7 N/mm ²	ISO 527
Elongation at max. strength:	0.70%	
Elongation at fracture:	0.70%	
Modulus of elasticity:	2620 N/mm ²	
Density, 20°C	1.16 g/cm ³	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 and 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® 307 must be carefully stirred to achieve a uniform distribution of the agents contained in the product. Duracon® 307 is thoroughly mixed together with Duracon® CATALYST (50% dibenzoyl peroxyde), in accordance with the guidelines below.

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% by weight of resin and additionally add Duracon® 404, which is an accelerating agent.

Note: Weight to Volumetric conversion of Catalyst.

1 cc of Duracon® CATALYST weights 0.64 gm
1 gm of Duracon® CATALYST = 1.57 cc

Application:

A compatible pigment powder can be used to colour the Duracon® 307. Please contact our Technical Service Department for details.

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 spread on to the coating with a short-pile paint roller. On sand-blinded coatings the sealer can be pre-spread with a notched rubber squeegee before rolling. It is important to work with freshly mixed material, with a maximum consumption per layer of 0.4 kg/m². If a thicker layer is required it must be applied in two separate coats. Mix small batches.

Consumption of Duracon® 307 sealer is between 0.3 and 0.8 kg/m², depending on the Duracon coating system on to which it is applied. For further details see our general preparation and application guidelines for Duracon floor protection systems.

Shelf Life:

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

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Health & Safety:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon® 307.

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® 307 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. 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 Equus to be accurate and reliable.

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