

Duracon® 203

Resin binder for Duracon® flooring systems

Key Benefits Summary:

- Excellent hot water resistance
- Good curing
- Good chemical and wear resistance
- Easy to apply

Product Information:

Description:

Duracon® 203 is a medium viscosity, colourless, 2 component reactive resin based on methyl methacrylate (MMA).

Usage:

Duracon® 203 is used as a binder for the production of floor coatings.

It is especially suited for areas with heavy hot water and heat load, e.g. in the direct areas surrounding dish and bottle washing machines, cooking vessels, boilers, ovens etc.

It is suitable for the Duracon® Systems BC and TR. Systems using Duracon® 203 as the main binder, the floor coating must always be treated with a Duracon® sealer (e.g. Duracon® 301).

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. Keep additive and catalyst separate. The optimal storage temperature is 15-20°C.

Technical Information:

Technical Characteristics (liquid state)

Viscosity, 25°C:	130-170mPa*s	DIN 53214
Density, 25°C:	0.97 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:	11.5 N/mm ²	DIN 53455
Elongation at max. strength:	6.8%	
Elongation at fracture:	84%	
Modulus of elasticity:	174N/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 area to be coated, must be pretreated with a Duracon® primer (e.g. Duracon® 101) including sanding. The substrate must be dry, firm, solid and free of dust, fat and oil. Particles that can interfere with adhesion need to be removed.

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

Mixing:

Prior to use, Duracon® 203 must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. Duracon® 203 is thoroughly mixed together with the Duracon® CATALYST (50% dibenzoyl peroxyde), in accordance with the below guidelines in catalyst table.

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 5% 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 cm³ of Duracon® CATALYST weights 0.64 g
1 g of Duracon® CATALYST = 1.57 cm³

Application:

The material consumption and application method depends in which of the Duracon® Systems Duracon® 203 resin is being used for; see specific System Data Sheets for further information.

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

Health & Safety:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon® 203.

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® 203 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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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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