

Duracon® 205

Bodycoat binder for Duracon® flooring systems

Key Benefits Summary:

- A general purpose resin
- Excellent curing characteristics
- Good chemical and wear resistance
- Easy to apply
- For wet and dry production areas
- Good chemical and wear resistance properties
- For indoor and outdoor applications

Product Information:

Description:

Duracon® 205 is a medium viscosity, colourless, 2 component reactive resin based on methyl methacrylate (MMA).

Usage:

Duracon® 205 is used as a binder for the production of floor coatings. It is particularly suitable for the Duracon TR system. Systems using Duracon 205 as the main binder must always be treated with a Duracon sealer (e.g. Duracon 307). Duracon 205 is a general purpose resin; and must not be used in areas subject to heavy hot water loading; for such situations we recommend Duracon 203.

Packaging:

180 kg steel drums, 18 kg metal pails.

Technical Information:

Technical Characteristics (liquid state)

Viscosity, 25°C:	130-170mPa*s	DIN 53018
Density, 25°C:	0.98 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:	8.3 N/mm ²	ISO 527
Elongation at max. strength:	6.6%	
Elongation at fracture:	113%	
Modulus of elasticity:	182 N/mm ²	
Density, 20°C	1.11 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 area to be coated, must be pretreated with a Duracon® primer (e.g. Duracon® 101) including sand-blasting. The substrate must be dry, firm, solid and free of dust, fat and oil. Particles that can interfere with adhesion must be removed.

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

Mixing:

Prior to use Duracon® 205 must be carefully stirred to achieve a uniform distribution of the agents contained in the product. Duracon® 205 is thoroughly mixed together with the Duracon® CATALYST (50% dibenzoyl peoxyde), 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% 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.

Please contact our technical services department for further details.

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:

The material consumption and application method will depend upon the Duracon® system in which Duracon® 205 resin is being used. See specific Systems Data Sheets for further information. 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.

Health & Safety:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon® 205. 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® 205 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 Safety Data Sheet.

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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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