

RESIN BINDER FOR DURACON® FLOORING SYSTEMS

KEY BENEFIT SUMMARY

- A general purpose resin
- Excellent curing characteristics
- Good chemical and wear resistance
- Easy to apply
- For wet and dry production areas
- 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® 301). Duracon® 205 is a general purpose resin; it must not be used in areas subject to heavy hot water loading; for such situations we recommend Duracon® 203.

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:	130-170 mPa*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 maximum strength:	6.6 %	ISO 527
Elongation at fracture:	113 %	ISO 527
Modulus of elasticity:	182 N/mm ²	ISO 527
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 sanding. 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 paraffin contained in the product. Duracon® 205 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 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.

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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

The material consumption and application method depends in which of the Duracon® systems Duracon® 205 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 AND SAFETY PRECAUTIONS

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 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 but make no warranty as to appearance of colour.

The information and recommendations herein are believed by RPM/Belgium N.V. and Alteco Technik GmbH to be accurate and reliable.

CE CERTIFICATION


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EN 13813
Duracon® 205 in Duracon® BC Duracon® TR Systems
Reaction to Fire: C _{FI} – s1 (Duracon® BC) C _{FI} – s1 (Duracon® TR)
Wear resistance: Class AR 0,5