

DURACON 205

Binder for floor coatings

April 2024

PRODUCT:

Duracon 205 is a medium viscosity, colourless, two 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 Matacyl 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 Resin.

STANDARD PACKS:

180 kg steel drums, 18 kg metal pails.

SHELF LIFE:

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

PROPERTIES:

Liquid State			Cured State		
Viscosity, 25°C	100-170 mPa*s	DIN 53018	Tensile strength	8.3 N/mm ²	ISO 527
Density, 25°C	0.98 g/ml	ISO 2811	Elongation at max. strength	6.6%	
Pot life/processing time at 20°C	approx 15 min.		Elongation at fracture	113%	
Curing time at 20°C	approx 40 min.		Modulus of elasticity	182 N/mm ²	
Flash Point	+11.5°C	ISO 1516	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.

SURFACE PREPARATION:

The area to be coated, must be pretreated with a Duracon primer (e.g. Duracon 108) 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.

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 peroxide), 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 Matacyl 404, which is an accelerating agent.

Note: Weight to Volumetric conversion of Catalyst: 1 cc of Duracon Catalyst weights 0.64 g. 1gm of Duracon Catalyst = 1.57 cc.

KEY BENEFITS:

- 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

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APPLICATION:

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

HEALTH AND 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 Material Safety Data Sheets.

WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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MANUFACTURERS CONTACT DETAILS:

Manufacture location	Australia
Legal and trading name of manufacturer	Tremco CPG Pty Ltd.
Manufacturer address for service	12/4 Southridge Street, Eastern Creek, NSW 2766, Australia
Manufacturer website	
Manufacturer email	orders@tremco.com.au
Manufacturer phone number	+61 2 4648 0397