

DURACON 223

Elastised binder for Duracon flooring system

February 2024

PRODUCT:

Duracon 223 is a high viscosity, colourless, 2 component reactive resin based on methyl methacrylate (MMA).

USAGE:

Duracon 223 is an elastised binder. It is mainly used for:

- The Duracon SL System
- Elastised versions of the Duracon BC and TR Systems
- As a movement and anti-vibration membrane
- Mixing with resins Duracon Resins

KEY BENEFITS:

- Flexible and crack-bridging
- Withstands vibrations and movements in the substrate
- Good wear resistance
- Excellent impact resistance
- Resistant to many chemicals
- Long and high UV resistance

Duracon 223 was developed especially to be included in Floor Coating Systems destined for situations of heavy loading such as the metal industry. It is also used as a membrane under Floor Coating Systems temporarily or permanently subjected to temperatures below 0°C, or outdoor areas, and for coatings in containers, on ship-decks etc.

Floor Coating Systems where Duracon 223 is the main resin binder must always be sealed with a suitable Duracon sealer (e.g. Duracon 319).

STANDARD PACKS:

180 kg steel drums, 50 kg metal pails.

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.

PROPERTIES:

Liquid State			Cured State		
Viscosity, 25°C:	160-200 mPa*s	DIN 53018	Tensile strength:	6.4 N/mm ²	DIN 53214
Density, 25°C:	1.01 g/ml	DIN 51757	Elongation at max. strength:	217%	DIN 51757
Pot life/processing time at 20°C	approx. 15 min.		Elongation at fracture:	217%	
Curing time at 20°C:	approx. 40 min.		Modulus of elasticity:	54 N/mm ²	
Flash Point:	+11.5°C	ISO 1516	Density, 20°C:	1.18 g/cm ³	DIN 53479

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 sanding. The substrate must be dry, firm, solid and free of dust, fat and oil. All substances that can interfere with good adhesion should be removed.

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MIXING:

Prior to use Duracon 223 must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. Duracon 223 is thoroughly mixed together with the Duracon Catalyst (50% dibenzoyl peroxide), 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 Matacryn 404, which is an accelerating agent.

Note: Weight to Volumetric conversion of Catalyst. 1 cm³ of Duracon Catalyst weighs 0.64g. 1g of Duracon Catalyst = 1.57 cm³

APPLICATION:

The material consumption and application method will depend upon the Duracon systems Duracon 223 resin is being used for. 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 223 .

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 223 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