

# Duracon<sup>®</sup> 225

## Resin binder for Duracon<sup>®</sup> flooring systems

### Key Benefits Summary:

- Flexible and crackbridging at extremely low temperatures (-20°C and below)
- Withstands vibration and movement of the substrate
- Improves impact resistance at extremely low temperatures (-20°C and below)
- Waterproof

### Product Information:

#### Description:

Duracon<sup>®</sup> 225 is a medium viscosity, colourless, urethane modified, 2 component reactive resin based on methyl methacrylate (MMA).

#### Usage:

Duracon<sup>®</sup> 225 is used as the resin binder for the production of a flexible and crack bridging floor coating, where the service conditions can go as low as -30°C.

It is especially suitable as a membrane in cold store and freezer rooms and as a crack bridging and waterproofing membrane for bridges etc. It can also be used to fill certain types of movement joints (please consult our Technical Representatives for such applications). Where Duracon<sup>®</sup> 225 is used as the main resin binder it must be sealed with a suitable Duracon<sup>®</sup> sealer (e.g. Duracon<sup>®</sup> 306)

#### 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. The optimal storage temperature is 15-20°C.

### Technical Information:

#### Technical Characteristics (liquid state)

Viscosity, 25°C:	180-240 mPa*s	DIN 53214
Density, 25°C:	1.00 g/ml	DIN 51757
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:	9.0 N/mm <sup>2</sup>	DIN 53455
Elongation at max. strength:	400%	
Elongation at fracture:	400%	
Modulus of elasticity:	55 N/mm <sup>2</sup>	
Hardness Shore A:	>95	DIN 53505
Hardness Shore D:	46	DIN 53505
Density, 20°C	1.11 g/cm <sup>3</sup>	DIN 53479

Please note that an objective comparison with other data is only

### Usage Guidelines:

#### Substrate Preparation:

The area to be coated, must be pretreated with a Duracon<sup>®</sup> primer (e.g. Duracon<sup>®</sup> 101) including sanding. The substrate must be dry, firm, solid and free of dust, fat and oil. Particles that can interfere with good adhesion must be removed.

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

#### Mixing:

Prior to use, Duracon<sup>®</sup> 225 must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. Duracon<sup>®</sup> 225 is thoroughly mixed together with the Duracon<sup>®</sup> 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 1.0% by weight of resin
At 20°C	add 2.0% by weight of resin
At 10°C	add 4.0% by weight of resin
At 0°C	add 5.0% by weight of resin
Below 0°C	add 5.0% by weight of resin and additionally add Duracon <sup>®</sup> 404, which is an accelerating agent.

Note: Weight to Volumetric conversion of Catalyst.  
1 cm<sup>3</sup> of Duracon<sup>®</sup> CATALYST weights 0.64 g  
1 g of Duracon<sup>®</sup> CATALYST = 1.57 cm<sup>3</sup>

#### Application:

The material consumption and application method depends in which of the Duracon<sup>®</sup> systems Duracon 225 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<sup>®</sup> floor protection systems".

#### Health & Safety:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon<sup>®</sup> 225. 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<sup>®</sup> 225 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.

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2 pages

PRODUCT  
DATA  
SHEET

### **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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