

Duracon® 212

Key Benefits Summary:

- Reduce odour during application
- Multi-purpose resin
- Easy to apply
- Excellent curing characteristics
- Semiflexible
- Good chemical and wear resistance properties
- For use in wet and dry production areas
- For indoor and outdoor use

Product Information:

Description:

Duracon® 212 is a medium viscosity, colourless, 2 component reactive resin based on methyl methacrylate (MMA).

Usage:

Duracon® 212 is a reduced odour resin used as a binder for the production of floor coatings. It is particularly suitable for the Duracon® systems BC and TR, especially when they are applied onto critical substrates. Systems using Duracon® 212 as the main binder must always be treated with a Duracon® sealer (e.g. Duracon® 301). Duracon® 212 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, 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: | 180-240mPa*s | DIN 53214 |
| Density, 25°C: | 1.00 g/ml | DIN 51757 |
| Pot life/processing time at 20°C: | | approx 10 min. |
| Curing time at 20°C: | | approx 30 min. |
| Flash Point: | +11.5°C | ISO 1516 |

Technical Characteristics (cured state)

| | | |
|------------------------------|------------------------|-----------|
| Tensile Strength: | 6.7 N/mm ² | DIN 53455 |
| Elongation at max. strength: | 141% | |
| Elongation at fracture: | 141% | |
| Modulus of elasticity: | 117 N/mm ² | |
| Density, 20°C | 1.12 g/cm ³ | DIN 53479 |

Please note that an objective comparison with other data is only possible if norms and parameters are identical.

The information in this product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. We reserve the right to alter or up-date information parameters and formulations at any time without notice.

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. All substance that can interfere with good adhesion should be removed.

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

Mixing:

Prior to use Duracon® 212 must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. Duracon® 212 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 Duracon® 404, which is an accelerating agent. |

Please contact our technical services 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® 212 resin is being used for; see specific Systems Data Sheets for further information. For further details see our General Preparation and application guidelines for Duracon® floor protection systems.

Health & Safety:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon® 212. 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® 212 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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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.

Equus Industries Ltd
PO Box 601
Blenheim
Phone: 03 578 0214 Fax 03 578 0919
Email: admin@equus.co.nz
Web: www.equus.co.nz