

# Duracon® 101

## Key Benefits Summary:

- Excellent adhesion to most common substrates
- Fast and safe curing even at low temperatures
- Provides good adhesion to subsequent coats

## Product Information:

### Description:

Duracon® 101 is a low viscosity, colourless, 2 component reactive resin based on methyl methacrylate (MMA).

### Usage:

Duracon® 101 is used as a general prime coat for Duracon® floor coatings. It is normally used as supplied but may be thinned with Duracon® 407 to increase the penetration into certain types of cementitious substrates. For bituminous substrates we recommend the use of Duracon® 106 as primer. For ceramic and common metal substrates we recommend the use of Duracon® 107 as primer.

For information on above products please see the respective Data Sheets.

We strongly recommend with all Duracon® primers that curing and adhesion tests are conducted on the particular substrate prior to general use on site.

### 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:	100-130mPa*s	DIN 53214
Density, 25°C:	0.99 g/ml	DIN 51757
Pot life/processing time at 20°C:		approx 15 min.
Curing time at 20°C:		approx 30 min.
Flash Point:	+11.5°C	ISO 1516

### Technical Characteristics (cured state)

Tensile Strength:	10.3 N/mm <sup>2</sup>	DIN 53455
Elongation at max. strength:	0.62%	
Elongation at fracture:	0.62%	
Modulus of elasticity:	1990 N/mm <sup>2</sup>	
Density, 20°C	1.16 g/cm <sup>3</sup>	DIN 53479

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

## Usage Guidelines:

### Substrate Preparation:

The substrate must be dry (maximum 4% residual humidity), firm, solid and free of dust, fat and oil. Laitance and loose particles must be thoroughly removed, e.g. by shot blasting. Fats or oils as well as humidity can be removed for example by flame blasting.

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

### Mixing:

Prior to use, Duracon® 101 must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. Duracon® 101 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 6% by weight of resin
Below 0°C	add 6% by weight of resin and additionally add Duracon® 404, which is an accelerating agent.

Note: Weight to Volumetric conversion of Catalyst.

1 cm<sup>3</sup> of Duracon® CATALYST weights 0.64 g  
1 g of Duracon® CATALYST = 1.57 cm<sup>3</sup>

### Application:

After the catalyst has been stirred in, the primer is poured onto the substrate in stripes and distributed with a short-pile paint roller. A notched rubber squeegee can be used for fast distribution of large quantities. Apply at a rate of between 300 gr/m<sup>2</sup> to 500 gr/m<sup>2</sup> depending on the density and porosity of the substrate. In any case, continue applying primer until the saturation occurs to obtain a continuous resin film. On extremely porous substrates a second prime coat may be required. When a continuous resin film is obtained, broadcast fire-dried quartz sand (particle size 0.7-1.2 mm or 0.3-0.7 mm) into the still wet primer.

Consumption approximately 0.3 kg/m<sup>2</sup>

### Health & Safety:

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Duracon® 101. 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® 101 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.

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