



# Matacryl® WL RESIN

PU MODIFIED RESIN FOR FLEXIBLE MEMBRANES AND COATINGS

## Product Description

Matacryl® WL RESIN is a polyurethane modified resin based on acrylic monomers and polymers.

## Features and Benefits

- Flexible and crackbridging at low temperatures
- Wear/impact resistant formulations possible
- Easy to apply
- Fast curing even at low temperatures
- Free from external plasticiser

## Usage

MATACRYL® WL RESIN is an elastified resin binder intended for the formulation of flexible membranes and flexible, wear resistant coatings exposed to subzero temperatures. It is mainly used for:

- Waterproofing and shockabsorbing membranes.
- Flexible floor coverings especially if exposed to low temperatures e.g. coolers and freezers.
- As a wearing layer for outdoor applications exposed to heavy mechanical loadings and rapid temperature variations i.e. ramps, bridges and carpark.

## Technical Characteristics (liquid state)

Viscosity, 25°C:	160 – 200 mPa*s	DIN 53018
Density, 25°C:	0.99 g/ml	ISO 2811
Pot life / processing time at 20°C:	15 – 18 mins	-
Curing time at 20°C:	60 – 120 mins	-
Application temperature range:	0 – 35°C	-

## Technical Characteristics\* (cured state)

Tensile strength, 20°C:	11.0 MPa	ISO 527
Tensile strength, 0°C:	20.6 MPa	-
Elongation at fracture, 20°C:	250%	-
Elongation at fracture, 0°C:	158%	-
Modulus of elasticity, 20°C:	82.4 MPa	-
Modulus of elasticity, 0°C:	407 MPa	-

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



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## USAGE GUIDELINES

### Substrate preparation

The area to be coated, must be pretreated with a suitable Matacryl® PRIMER including sanding.

The substrate must be dry, firm, solid and free of dust, fat and oil.

All substances that can prevent a good adhesion should be removed.

### Mixing

Prior to use Matacryl® WL RESIN must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product.

Matacryl® WL Resin is thoroughly mixed together with the Matacryl® 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 5% by weight of resin and additionally add Matacryl® ACCELERATOR, which is an accelerating agent.

Please contact our Technical Service Department for further details.

**Note:** Weight to Volumetric conversion of Catalyst.

- 1 cm<sup>3</sup> of Matacryl® CATALYST weighs 0.64 g
- 1 g of Matacryl® CATALYST = 1.57 cm<sup>3</sup>

### Application

The material consumption and application method depends in which of the Matacryl® systems Matacryl® WL RESIN is being used for; see specific System Data Sheets for further information.

### Packaging

180 kg steel drums, 25 kg metal pails.

### Shelf life

6 months when stored under cool and dry conditions in original packaging.  
Recommended storage temperature is 15 – 20°C.



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## Health and safety precautions

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Matacryl® WL RESIN.

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.

Matacryl® WL RESIN 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.

## Technical service

Contact RPM/Belgium N.V. or Alteco Technik GmbH.

## Guarantee

RPM/Belgium N.V – Alteco Technik GmbH warrants all goods to be free from defects and will replace materials proven to be defective but makes no warranty as to appearance of colour.

The information and recommendations herein are believed by RPM/Belgium N.V – Alteco Technik GmbH to be accurate and reliable.

## Warranties and Disclaimers

Hychem warrants that this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product is dependent upon the proper use and application of the product by the applicator. Hychem has no role in the application of the finished polymer other than to manufacture and supply its components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of spray equipment and application of sol-gel materials. There are no warranties that extend beyond the description on the face of this instrument, except when provided in writing, directly by Hychem and executed under seal by a company officer.

## Field Support

Field support where provided, does not constitute supervisory responsibility. Suggestions made by HYCHEM either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not HYCHEM are responsible for carrying out procedures appropriate to a specific application.

## Customer Responsibility

The technical information and application advice given in this publication is based on the best information available at the time of print. As the information herein is of a general nature, no assumption can be made as to the product suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.