Matacryl® PRIMER H

PRIMER FOR MATACRYL® WATERPROOFING SYSTEMS
APPLIED TO WET CEMENTITIOUS BASED SUBSTRATES

HYCHEM
Infrastructure

Product Description

Matacryl® PRIMER H is a low viscosity, violet blue, 2 component reactive resin based on methyl methacrylate (MMA).

After polymerisation, most of the violet blue colour is disappearing.

Features and Benefits

- Excellent adhesion to damp concrete and cementitious based substrates
- Fast and safe curing even at low temperatures
- Provides good adhesion to subsequent coats

Usage

Matacryl® PRIMER H is used as a special prime coat for wet concrete substrates.

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

Technical Characteristics (liquid state)

Viscosity, 25°C:	100 – 130 mPa.s	DIN 53019
Density, 25°C:	1,02 g/ml	ISO 2811
Pot life / processing time at 20°C:	approx. 15 mins	-
Curing time at 20°C:	approx. 60 mins	-
Flash point:	+ 11.5°C	ISO 1516

Technical Characteristics (cured state)

Tensile strength:	10.4 N/mm^2	ISO 527
Elongation at maximum strength:	2.1 %	-
Elongation at fracture:	2.1 %	-
Modulus of elasticity:	720 N/mm^2	-
Density, 20°C:	1.18 g/cm^3	ISO 1183

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

Matacryl® PRIMER H is suitable for damp concrete and cementitious substrates. The concrete or cementitious substrate can be internally saturated, but the surface must not be under water or have any visible standing water or water film on it when Matacryl® PRIMER H is applied.

The substrate must be firm, solid and free of dust, fat and oil. Laitance and loose particles must be removed thoroughly, e.g. by shot blasting. Fats or oils can be removed by flame blasting for example.

Surface structure shall allow the correct application of the primer.

- Surface tensile strength shall be min. 1.5 MPa.
- Mechanical preparation shall expose concrete aggregate.
- Visible pin holes and craters shall be filled separately using filled primer or suitable cement mortar.

Application conditions

- Surface and ambient temperatures min. -5°C, max. +35°C.
- The substrate temperature should always be at least 3°C above the dew point temperature.
- In closed rooms a forced ventilation with at least 7-fold air exchange per hour is recommended.

To provide for Outside these conditions, please contact our Technical Service.

Mixing

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

Matacryl® PRIMER H is thoroughly mixed together with the Matacryl® CATALYST (50 % dibenzoyl peroxyde), in accordance with the following guidelines.

It should be noted that the amount of catalyst powder to be added depends upon the application temperature.

Guidelines for Matacryl® CATALYST addition to Matacryl® PRIMER H

Temperature	Weight percentage hardener	Gram hardener per 20 kg
30°C	2.0 %	400 g
20°C	3.0 %	600 g
10°C	4.0 %	800 g
0°C	6.0 %	1200 g
< 0°C	6.0 %	1200 g

Remark:

The optional product temperature is 15 – 20°C.
At temperatures below 0°C add also the accelerator, Matacryl® ACCELERATOR should also be added.

For further information contact our technical department.

Conversion:

1 cm^3 of Matacryl® CATALYST = 0.64 g
1 g of Matacryl® CATALYST = 1.57 cm^3

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Application

- Substrate surface temperature may range from 0°C to 40°C.
- Do not apply when surface temperature is above 40°C and/or rapidly rising. Special care must be observed if area is under exposure to direct sunshine.
- Substrate temperature must be at least 3°C over actual dew point.
- Avoid application if relative humidity in air is above 90% and also in foggy conditions.

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 minimum 300 gr/m^2 to 500 gr/m^2 depending on density and porosity of the substrate. In any case, continue applying primer 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.

Packaging

180 kg steel drums, 20 kg metal pails.

Shelf life

12 months when stored in a cool and dry place and in originally closed packaging.
The optimal storage temperature is 15 – 20°C.

Health and safety precautions

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of MATACRYL® PRIMER H.

When the product is applied in enclosed areas without natural ventilation, forced ventilation must be arranged.

Avoid strong concentration of vapour as well as direct contact with skin or eyes.

Matacryl® PRIMER H 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.

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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.

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