MATACRYL® PRIMER H

PRIMER FOR MATACRYL® WATERPROOFING SYSTEMS APPLIED TO DAMP or DRY CEMENTITIOUS BASED SUBSTRATES

KEY BENEFIT SUMMARY

- Excellent adhesion to damp concrete and cementitious based substrates
- Fast and safe curing even at low temperatures
- Good adhesion to subsequent PUMA & MMA coats

PRODUCT INFORMATION

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 will disappear.

Usage

MATACRYL® PRIMER H can be used as a special prime coat for damp concrete substrates.
We strongly recommend with all MATACRYL primers that curing and adhesion tests are conducted on particular sub- strate prior to general use on site.

Packaging

180 kg steel drums, 20 kg metal pails

Shelf life & Storage

12 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:	100-130 mPa·s	DIN 53019
Density, 25 °C:	1,02 g/ml	ISO 2811
Pot life / processing time at 20 °C:	approx. 15 min	
Curing time at 20 °C:	approx. 60 min	
Flash point:	+ 11.5 °C	ISO 1516

Technical characteristics (cured state)

Tensile strength:	10.4 N/mm²	ISO 527
Elongation at maximum strength:	2.1 %	
Elongation at fracture:	2.1 %	
Modulus of elasticity:	720 N/mm²	
Density, 20 °C:	1.18 g/cm³	ISO 1183

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

USAGE GUIDELINES

Substrate preparation

MATACRYL® PRIMER H is suitable for dry or 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. 1.9 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

- Ambient temperatures min. -5 °C, max.+35 °C.
- Substrate temperature shall be max 42°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.

When these conditions are not forthcoming, 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.
Dosage rates of catalyst powder will depend upon the Application temperature (see table below)

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MATACRYL® PRIMER H

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 the MATACRYL® CATALYST at prescribed rates.
For further information contact our technical department.

Application

- Substrate surface temperature may range from 0 °C to 40 °C.
- Do not apply when surface temperature is above 42 °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 lanes and distributed with a short-haired nap roller. A notched rubber squeegee can be used for fast distribution of large quantities. Apply at a rate of between minimum 300 gr/m² to 500 gr/m² 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.

HEALTH AND SAFETY PRECAUTIONS

Suitable protective clothing, gloves and eye protection 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
Distributor: Hychem International – Infrastructure

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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