Matacryl® PRIMER CM

BOND COAT FOR CONCRETE, METAL, WOOD, POLYMER AND TILE SUBSTRATES

HYCHEM Infrastructure

Product Description

Matacryl® Primer CM is a low viscosity, colourless, single component reactive resin based on methyl methacrylate (MMA). It is part of an innovative waterproofing system that supports tight completion timelines of projects and ensures long-term performance and resilience. Excellent adhesion to a variety of substrates.

Volume adjustments of catalyst allow for 20 to 45 minutes cure time between applications independent of temperature.

May be applied at a range of ambient and substrate temperatures from -20°C to 35°C.

Features and Benefits

- Fully cured one hour after application
- Rapid cure allows quick installation, regardless of temperature, enabling wintertime installations
- Enables base/body coat application within 45 minutes.
- Excellent bond to a variety of substrates
- Unique chemistry facilitates easy repair solutions
- Easy to apply using a roller or squeegee

Applications

- Bridge decks (concrete and metal; steel, iron and aluminium)
- Suitable for use on wood, fibre-reinforced polymers and ceramic tile substrates

Technical Data*

PROPERTY	TEST METHOD	VALUE
Viscosity @ 25°C	DIN 53019	100-130 mPa•s
Density @ 25°C	ISO 2811	0.99 g/ml
Curing Time @ 20°C		approx. 30 minutes
Pot Life @ 20°C		approx. 15 minutes

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

INSTALLATION INSTRUCTIONS

Surface Preparation

- All substrates must be dry, firm, solid and free of dust, grease, oil, and loose particles, usually by shot or sand blasting to attain correct surface profile. Mechanical preparation should expose concrete aggregate.
- Fill visible pin holes and defects using filled-Matacryl Primer or suitable cementitious mortar. Newly poured concrete must have reached adequate strength to receive Matacryl system.
- Substrate moisture content should be <6%
- Minimum surface tensile strength 1.5MPa

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Mixing

- Prior to use, Matacryl Primer CM must be carefully stirred to achieve uniform distribution of the paraffin in the product, normally a minimum of three (3) minutes.
- Using a variable speed drill with helical stirrer, Matacryl Primer CM is thoroughly mixed together with Matacryl Reactive Filler (25% dibenzoyl peroxide) or Matacryl Catalyst (50% dibenzoyl peroxide), in accordance with the following guidelines. The amount of Matacryl Reactive Filler/Matacryl Catalyst to be added depends on the substrate temperature.

TEMP °C	MATACRYL REACTIVE FILLER	MATACRYL CATALYST	MATACRYL ACCELERATOR
<0	12% by weight of resin	6% by weight of resin	1-3% by weight of resin
0	10% by weight of resin	5% by weight of resin	n/a
10	8% by weight of resin	4% by weight of resin	n/a
20	4% by weight of resin	2% by weight of resin	n/a
30	2.2% by weight of resin	1.1% by weight of resin	n/a

Note: For safety reasons, Matacryl Accelerator must be added to reactive resin PRIOR to adding any Matacryl Reactive Filler/Matacryl Catalyst. See TDS Matacryl Accelerator for more details.

Application

Matacryl Primer CM is manually applied using a roller or squeegee. For the consumption of product per m^2, please consult the System Build Up Sheets. Curing & adhesion tests conducted on substrates are strongly recommended prior to general use.

- Immediately after mixing with the catalyst, the primer is poured on to the substrate in strips and spread with a short-pile paint roller. A notched rubber squeegee may be used for fast distribution of large quantities; this may consume more material.
- Apply at a rate of between 0.3 to 0.5kg/m^2, depending on density and porosity of the substrate. Continue applying primer until saturation occurs to obtain a continuous resin film. On porous substrates, a second primer coat may be required.
- When a continuous resin film is obtained, broadcast fire-dried quartz sand (particle size 0.7 to 1.2mm or 0.3 to 0.7mm) into the still wet primer (consumption of broadcast sand; approximately 0.3 kg/m^2.
- Do not apply when surface temperature is above 40°C and/or rapidly rising. Special care must be observed if area is exposed to direct sunlight.
- Substrate temperature must be at least 3°C above actual dew point and rising.

The techniques involved may require modification to adjust to job-site specific conditions. Consult your USL Speciality Products Sales Representative or USL Technical Services for site conditions and requirements. For further installation details, see our General Preparation and Application Guidelines for “Matacryl Systems”.

Cleaning

Clean all mixing equipment and tools regularly and immediately after use with Acetone.

Packaging

Matacryl Primer CM is available in 20kg pails & 180kg drums
BPO hardener catalyst is available as 25kg box
Both above parts are required
Acetone is available in 20 litre drums

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Storage

Shelf life is 12 months for resin and 6 months for BPO when stored in original unopened packs in a cool and dry place.
The date of manufacture is given on the label.
Storage temperature between 5°C and 40°C out of direct sunlight. Optimal storage temp: 15°C to 20°C.
Flash point + 12°C.
Protect from frost, adverse weather and moisture / contaminant ingress.

Health and Safety

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application.

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.

Highly flammable; keep away from heat and all sources of ignition and do not smoke. All electric appliances used on the application site must be explosion-proof versions.

For further information see our Material Safety Data Sheet. Safety Data Sheets (SDS) are available from USL and are provided to help customers satisfy their safe handling, use and disposal needs as well as assist with any conformance requirements made locally by health and safety regulations.

SDS are continually updated to provide the latest information to our customers. We therefore recommend contacting our head office to obtain the most recent and accurate SDS before handling and using any product

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