

Matacryl[®]

Sealer

Concrete Deck Protection

Product Description

Matacryl[®] Sealer is a low viscosity, reactive resin based on methyl methacrylate (MMA). It is part of an innovative deck protection system that supports tight completion timelines of infrastructure projects and ensures long-term performance and resilience.

Basic Uses

Matacryl Sealer is applied to prepared, horizontal concrete surfaces to penetrate surface cracks and provides a flexible, protective deck coating upon curing. It functions to prevent water and contaminant intrusion that can cause deterioration of concrete and substructures. It may be used as a flood coat, full deck treatment or localized/direct crack treatment on concrete in:

- Bridge decks, sidewalks, ramps
- Airport runways, taxiways and tarmacs
- Facility trafficked areas and warehouse floors
- Parking garage decks, ramps and spaces
- Precast concrete components

Features and Benefits

- Rapid cure times within 45 minutes for quick return to service.
- Low viscosity allows it to penetrate concrete decks to fill pores, seal cracks and densify surface concrete.
- Easy to mix and apply.

Physical Properties*

Property	Value
Solids Content	100% solids with catalyst
VOC Content	<30%
Viscosity @ 77 °F (25 °C)	<25 cps
Specific Gravity @ 77 °F (25 °C)	.96
Flash point	50.5 °F
Vapor Pressure	.2 psi
Tensile Strength	>2,500 psi
Bond Strength	>250 psi

** The values shown are based on system testing under laboratory conditions. Different field application conditions or lab equipment configurations may result in system value variances.*

Packaging

- 5 US gal/pail
- 50 US gal/drum
- Coverage Rate: 100 to 150 square feet per gallon depending on porosity of substrate and prevalence of deck cracking. Direct crack treatment may consume less material per square foot.

Installation

Surface Preparation

- All substrates must be dry, firm, solid and free of dust, grease and oil. Laitance and loose particles must be thoroughly removed by shot blasting, sand blasting, grinding or high-power pressure wash. Newly poured concrete must have reached adequate strength to receive a coating. Prior to applying Sealer, ensure that concrete moisture content is below 6% using a Tramex meter or other device.
- Prior to use, Matacryl Sealer must be carefully stirred to achieve uniform distribution of the product, normally a minimum of three (3) minutes.

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- Matacryl Sealer is thoroughly mixed with Matacryl Catalyst (50% dibenzoyl peroxide), in accordance with the following guidelines. The amount of Catalyst powder to be added depends on the substrate temperature.

Temp F	Temp C	Matacryl Catalyst	Matacryl Accelerator
86 °F	30 °C	1 % by weight of resin	n/a
68 °F	20 °C	2 % by weight of resin	n/a
50 °F	10 °C	4 % by weight of resin	n/a
32 °F	0 °C	6 % by weight of resin	n/a
<32 °F	<0 °C	6 % by weight of resin	1-3 % by weight of resin

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

Application

After the Catalyst has been stirred in, the Sealer is poured on to the substrate in stripes and distributed with a brush broom or short-pile paint roller. A rubber squeegee may be used for fast distribution of large quantities. Apply at a thickness between 13 to 20 mils, depending on density and porosity of the substrate. Continue applying Sealer until saturation occurs to obtain a continuous resin film.

- Do not apply when surface temperature is above 104 °F (40 °C) and/or rapidly rising. Special care must be observed if area is exposed to direct sunlight.
- Substrate temperature must be at least 5° over actual dew point and rising.

Aggregate

Broadcast sand to the treated area – full deck or localized cracks – prior to sealer gel time (approximately 5 to 10 minutes after application). Consumption rate approximately 1 to 2 lbs per square yard.

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

Limitations/ Shelf Life

Two (2) years when stored in a dry place in original, closed packaging. Optimal storage temperature: 60 to 70 °F (15 to 20 °C).

Warranty

FPT Infrastructure warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, FPT Infrastructure makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to FPT Infrastructure Products. FPT Infrastructure’s sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of FPT Infrastructure Products proven to be defective, and FPT Infrastructure shall not be liable for any loss or damage.

Please refer to our website at fptinfrastructure.com for the most up-to-date Product Data Sheets.

NOTE: All FPT Infrastructure Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.