

DUROGLASS FU 49 P.F.

SURFACE-TOLERANT PRIMER AND FINISH FOR CARBON STEEL BASED ON EPOXY RESINS AND POLYAMMINE-AMIDE HARDENER WITH ZINC PHOSPHATE



CHARACTERISTICS

- Applicable **from 80 to 200 microns per coat.**
- High **toughness** and **flexibility.**
- High resistance to **aggressive environments.**
- Excellent **corrosion inhibiting** properties.
- Applicable on manually prepared carbon **steel surfaces**, even in the presence of old, adherent coatings.
- Adheres to galvanized steel**, both new and in the process of corrosion.
- Cures at +5°C** even in the presence of high atmospheric humidity (100% R.H.).

APPLICATION TEMPERATURE

Applicable **from +5°C to +35°C** on the substrate.

OPERATING TEMPERATURE

Operating temperature **from -25°C to +120°C** in air.

FIELD OF APPLICATION

High-build anti-corrosion primer and topcoat for the maintenance and protection of carbon and galvanized steel structures in industrial and marine environments.

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PREPARATION OF THE SUBSTRATE

- **Steel surfaces** that are already **painted** may be pressure-washed, brushed, or preferably sandblasted.
- **Dry steel surfaces** not subject to condensation must be prepared according to SSPC-SP10 to Sa21/2 grade.
- **Steel surfaces subject to condensation** must be prepared according to SSPC-SP3 to St3 grade.
Avoid grade Sa21/2 on damp or condensation-covered surfaces at all costs, as this would compromise the product's adhesion. Surfaces covered with condensation should preferably be cleaned in accordance with SSPC-SP3 to grade St3 (scraping and brushing).
- **New galvanized steel surfaces** must be properly prepared.

Preparation by sandblasting, brushing, or commercial blasting to Sa1 or Sa2 grade, or water jetting according to SSPC-SP12 to W J 4, W J 3, or W J 2 grade may also be used; absolutely avoid sandblasting to Sa2½ grade, which must only be used on dry surfaces such as the interior of penstocks.

For the **interior of penstocks**, use **DUROGLASS FF 4416** as the preparation primer.

PRODUCT PREPARATION

Two-component product to be thoroughly mixed before use with a low-speed mechanical propeller mixer, proceeding as follows:

- add Component B to Component A and mix until completely homogenized.

DILUTION AND TINTING

After mixing, **DUROGLASS FU 49 P.F.** is ready for application, but during the winter months and on cold surfaces, it may be advisable to dilute with 2% **DILUENTE 21**.

The product is available only in a tinted version.

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PRODUCT APPLICATION

DUROGLASS FU 49 P.F. can be applied by:

- Roller
- Brush
- Airless spray (with 0.021" - 0.025" and pressures around 200 bar)

DUROGLASS FU 49 P.F. is generally applied in two coats with a total thickness of 160 to 300 microns. For protection in particularly aggressive environments, thicker coats can be applied up to a maximum total thickness of 400 microns.

WARNINGS AND PRECAUTIONS

- **DUROGLASS FU 49 P.F.** applied to surfaces subject to condensation may experience more or less uneven colour lightening; however, this does not compromise the product's anti-corrosion properties in any way.
- Any old paint not removed must have good adhesion, and powdery or flaking rust must be removed.

SAFETY AND CLEANING

When applying these products, it is recommended to use safety goggles, masks, and rubber gloves, as well as all PPE required by current regulations.

After use, tools must be thoroughly cleaned with **DILUENTE 21**.

For more information regarding usage precautions, please refer to the safety data sheet.



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TECHNICAL DATA		
Colour		Gray, ivory, green
Specific weight	UNI EN ISO 2811-1	1.30 ± 0.05 kg/l
Mixing ratio		100 parts by weight of base 33 parts by weight of hardener
Viscosity at 20°C	EN ISO 2555	6,000 ± 2,000 mPa·s (Spe. 10 – Imp. 3)
Pot life at 22°C	UNI EN ISO 9514	> 90 min
Dry film weight	EN ISO 3251	82% by volume
Theoretical coverage		345 g/m ² for 200 microns (use DUROGLASS FU 49 P.F. diluted with max 2% DILUENTE 21) 135–172 g/m ² for 80–100 microns (use DUROGLASS FU 49 P.F. diluted with max. 5% DILUENTE 21)
Curing at 22°C, 50% R.H.		- touch dry: 4 hours - fully cured: 12 hours - over-application: min. 6 hours / max. unlimited
Storage		The product in its original sealed containers, stored in a dry and protected place at temperatures between +5°C and +35°C, has a shelf life of 12 months.

The data and specifications provided in this data sheet, based on best practices and laboratory testing, are to be considered indicative in all cases. Given the varying conditions of use and the influence of factors beyond MPM's control (substrate, environmental conditions, installation methods, etc.), those intending to use the product are required to determine whether it is suitable for the intended application. Our warranty obligation is limited to the quality and consistency of the finished product as per the data above, and applies only to technical data sheets bearing the stamp and countersignature of authorized personnel from our headquarters. Furthermore, the customer is required to verify that these values are valid for the specific batch of product in question and have not been superseded or replaced by subsequent editions and/or new formulations. The data contained herein may be subject to change at any time without prior notice from MPM.