

Product

DUROGLASS FU 49 IS

code 4002 RAL
9610 0000

Features

SURFACE TOLERANT PRIMER AND EPOXY FINISHING AGENT FOR CARBON AND GALVANISED STEEL, SUITABLE FOR APPLICATION TO CEMENT COATED SURFACES, AND WITH EXCELLENT ELECTRICAL INSULATION PROPERTIES.

- Applicable from 80 to 200 microns per layer.
- Good holding power and flexibility.
- Good resistance to aggressive atmospheres.
- Excellent corrosion inhibiting properties.
- Applicable to damp surfaces.
- Applicable to surfaces with adhesive traces of old paintwork.
- Adheres to new and corroding galvanised steel.
- Hardens from +5°C, even in damp atmospheric conditions (100% RH).
- Applicabile da +5°C a + 35°C sul supporto.
- Operating temperature from -25°C to +120°C in air.

Application field

- Thick anti-corrosion base coat and finish for electrical insulation and the protection of carbon and galvanised steel structures in industrial and marine settings, including poles, fencing and similar.
- Insulating protection for reinforced concrete structures, such as heads of beams and similar.

Application

Two component product to be mixed prior to use. Applicable as mixed or diluted with DILUENTE 21 thinner, by brush, roller and airless spray with 0.021" - 0.025" nozzles and pressures in the region of 200 bar.

New carbon steel surfaces with traces of calamine should be sanded to at least level Sa2 ½ as per the SSPC-SP10 standard, or cleaned by means of a SSPC-SP12 water jet to W J 4, W J 3 or W J 2.

Rusted surfaces should be cleaned manually or mechanically to level St3, or by water jet to Wa2. New galvanised steel surfaces should be degreased if necessary, while carbonated or oxidised surfaces should be brushed to remove any dusts or non-adherent parts. Surfaces of this kind may also be cleaned by water jet.

Concrete surfaces should be in good condition, compact and free of dust and flaking or non-adherent parts.

DUROGLASS FU 49 IS is normally applied in two layers, to an overall thickness of 200 to 300 microns. For protection in particularly aggressive environments, thicknesses up to a total maximum of 400 microns may be applied.

Wash all tools with DILUENTE 21 thinner after use.

Technical data

Color	grey, green, pale blue
Specific weight	1.42 ± 0.04
Mixing ratio	100 parts by weight of base 33 parts by weight of hardener
Viscosity at 20°C	5,000 ± 2,000 mPa.s
Pot life at 22°C	3 hours

Solids	82% in volume
Theoretical consumption per coat	340 g/m ² per 200 microns (use DUROGLASS FU 49 IS diluted with 2% max of DILUENTE 21 thinner) 170 g/m ² per 100 microns (use DUROGLASS FU 49 IS diluted with 5% max of DILUENTE 21 thinner)
Hardening at 22°C, 50% RH	- dry to the touch 4 hours - hardened in depth 12 hours - over-application 6 hours minimum unlimited max
Dielectric rigidity UNI 4291	> 36.5 KV/mm
Surface resistance UNI 4288	> 3.5 x 10 ¹² Ω
Volume resistance UNI 4288	> 3 x 10 ¹¹ Ω.cm
Adhesion to concrete ASTM D 4541	> 3.5 MPa
Adhesion to galvanised steel ASTM D 4541	> 2.5 MPa
Storage	If kept in the original sealed packs in a dry, protected place at temperatures of +5°C to +35°C, the product will keep for 12 months.

All data and prescription reported on the present data sheet are based on the best lab and practical experience and should anyhow be considered as indicative. Considering all different uses and the occurring of situations and conditions independent from MPM (substrate, climate conditions, technical management etc. Those who intend to use the product should verify whether it is suitable for the specific conditions in which it will be applied before starting. MPM's responsibility covers the quality and productions standards referring to the above listed data only. Data should also be verified for latest available version of data sheets which could be surpassed by a new version. Data may change any time without notice from MPM.