

MAREPOX MR74 PRIMER

PRODUCT DATA SHEET

A universal anti-corrosive high solids epoxy primer/coating, containing zinc phosphate, based on anti-corrosion pigments and inert fillers. Easy to apply in high film thickness with excellent build-on on sharp edges. Specially developed for application on new steel structures, under aggressive atmospheric circumstances, where high-grade protection has to be combined with fast curing and reduction of solvent emissions. Can be used as primer/coating for concrete surfaces.

Type: Polyamide curing epoxy

Usage: Suitable for application up to and including C5-I and C5-M, environments according to ISO 12944.

Physical Information:

| | |
|------------------------------|--|
| Finish: | Satin |
| Colors: | Standard colours (e.g. RAL) |
| Volume Solids: | 72% ± 2 (varies depending on color) |
| VOC (mixed): | 260 g/l |
| Density: | At 20 °C 1.45 ± 0.1 kg/l |
| Theoretical Coverage: | At a dry film thickness of 100 µm: 7,4 m ² /l |
| Heat Resistance: | 120 °C (dry load) Aluminum 150 °C |
| Shelf life: | In original well shut packaging 12 months, stored inside at temperatures between 5 °C and 40 °C. |
| Potlife: | 2 Hours 20 °C |
| Thinner: | Markaj epoxy Thinner |
| Mix Ratio: | 5:1 by weight |

Processing Data

| | Airless spray | Brush-roller | Airspray |
|---------------------------|-----------------|--------------|-------------|
| Thinner | - | - | - |
| Amount | 5 vol.% | 10 vol.% | 10-20 vol.% |
| Nozzle | min. 0.021 inch | n.a | 1.2-1.7 mm |
| Flow pressure | 160 bar | n.a | 3-5 bar |
| Dry film thickness | 80 µm | 80 µm | 80 µm |

Cleaning tools: Immediately after application using thinner - Markaj epoxy thinner.

Mixing Instructions: preferably using a mechanical mixing device. The temperature of the mixed product should at least be 10 °C during application.

Drying Times

| | 10 °C | 20 °C |
|----------------|----------|---------|
| Touch: | 1 hour | 30 mins |
| Handle: | 4 hours | 2 hours |
| Recoat: | 16 hours | 8 hours |

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TEST DATA

| | |
|------------------------|---|
| Accelareted Weathering | According to ISO 11507 / ASTM G154: Testresult: n.a. |
| Saltspray | According to ISO 9227-NSS / ASTM B 117: Testresult: 1500 hours |
| Pull off | According to ISO 4624 / ASTM D4541: Testresult: 5.5 MPa |
| Outdoor exposure | According to ISO 2810: Testresult: 2 years |

Surface Preparation

| | |
|------------------------|--|
| Steel Roughness | profile 10 – 25 µm |
| Untreated Steel | The surface needs to be pretreated according ISO12944 part 4 § 6.2.3. Remove grease, oil, dirt etc. upon cleaning by sandblasting, phosphating or mechanical methods. Applicable on ST2 prepared surfaces. |

Application Conditions

Application temperature should be in the range of 5°C to 40°C to get the perfect result. Keep application area well ventilated during application and drying, in order to reduce evaporated solvents. This is necessary to acquire good drying conditions and for the good of the applicators' health.

Enviroment and health

Harmful and irritating in contact with skin, eyes and by inhalation. In case of eye contact, immediately wash with large amounts of water and contact a medical expert. Do not eat, drink or smoke during application.

Maintenance

It is recommended to clean the surface regularly and to inspect the coats of paint for defects annually. Touch up any defects with the original paint system.

Packaging

30 kg cans.

Notes: All information provided in this technical bulletin may change from time to time as a result of experience, developments in raw materials, and research and development activities. For additional information, please contact your regional sales representative or MARKAJ directly (Istanbul).