



INERTA 51 MIOX A

Epoxy Paint with Special Pigmentation

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|---------------------------|---|
| PAINT TYPE | INERTA 51 MIOX A is a two-pack solvent-borne epoxy paint. |
| USAGE | The paint is used as primer or intermediate coat in MIOX Epoxy Coating Systems and as an intermediate coat under TEKNODUR Polyurethane Top Coats in MIOX Epoxy Polyurethane Coating Systems on structures to be exposed to severe atmospheric conditions. |
| SPECIAL PROPERTIES | <p>Due to the micaceous iron oxide in the paint, the paint film is very dense and provides good resistance to water and chemicals. The paint has good resistance to heat - even damp heat.</p> <p>The paint has been approved for use in nuclear power plants in Scandinavia and comes up to the specifications of TBY (Technical regulations for surface treatment).</p> |

TECHNICAL DATA

| | | | |
|--|---|---------------------------------------|--|
| Mixing ratio | Base (Comp. A): Hardener (Comp B): INERTA 51 MIOX A HARDENER | 4 parts by volume 1 part by volume | |
| Pot life, +23 °C | 8 h | | |
| Solids | 55 ±2% by volume (ISO 3233:1988) | | |
| Total mass of solids | abt. 1100 g/l | | |
| Volatile organic compound (VOC) | abt. 400 g/l | | |
| Recommended film thickness and theoretical spreading rate | Dry film (µm) | Wet film (µm) | Theoretical spreading rate (m ² /l) |
| | 80 | 145 | 6,9 |
| | 100 | 180 | 5,5 |
| | 120 | 215 | 4,6 |

As many of the paint's properties will change if too thick coats are applied, it is not recommended that the product is applied to a film thickness that is more than double of the thickest recommended film.

Practical spreading rate The values depend on the application technique, surface conditions, overspray, etc.

Drying time, +23°C / 50% RH (dry film 80 µm)

- dust free (ISO 9117-3:2010) after 1 h
- touch dry (ISO 9117-5:2012) after 4 h

Overcoatable (dry film 80 µm)

| surface temperature | by itself | | by INERTA 50 A, INERTA 50 MIOX or TEKNOPLAST top coats | | by TEKNODUR top coats | |
|---------------------|------------|----------------|--|----------------|-----------------------|-----------|
| | min. | max. * | min. | max. * | min. | max. * |
| +10°C | after 16 h | after 6 months | after 16 h | after 6 months | after 16 h | after 4 d |
| +23°C | after 5 h | after 6 months | after 5 h | after 6 months | after 5 h | after 2 d |

* Maximum overcoating interval without roughening.

Increase in film thickness and rise in the relative humidity of the air in the drying space usually slow down the drying process.

Thinner, clean up

TEKNOSOLV 9506

Finish

Semi-matt

Colours

Dark grey, red

SAFETY MARKINGS

See Safety Data Sheet.

DIRECTION FOR USE**Surface preparation**

Remove from the surfaces any contaminants that might be detrimental to surface preparation and painting. Remove also water-soluble salts by using appropriate methods. The surfaces are prepared according to the different materials as follows:

STEEL SURFACES: Remove mill scale and rust by blast cleaning to preparation grade Sa 2½ (standard ISO 8501-1). Roughening the surface of thin-plate improves the adhesion of the paint to the substrate.

ZINC SURFACES: Hot-dip-galvanized steel structures that are exposed to atmospheric corrosion can be painted if the surfaces are sweep blast-cleaned (SaS) till matt all over. Suitable cleaning agents are, e.g. aluminium oxide and natural sand. It is not recommended according to standard ISO 12944-5 to paint hot-dip-galvanized objects that are subjected to immersion strain. Painting of hot-dip-galvanized objects that are subjected to immersion strain must be discussed separately with Teknos.

OLD PAINTED SURFACES SUITABLE FOR OVERCOATING: Any impurities that might be detrimental to the application of paint (e.g. grease and salts) are removed. The surfaces must be dry and clean. Old, painted surfaces that have exceeded the maximum overcoating time are to be roughened as well. Damaged parts are prepared in accordance with the requirements of the substrate and the maintenance coating.

The place and time of the preparation are to be chosen so that the prepared surface will not get dirty or damp before the subsequent treatment.

Prefabrication primer

KORRO E Epoxy, KORRO SE Zinc Epoxy and KORRO SS Zinc Silicate Prefabrication Primers can be used, when required.

Mixing of the components

Take into consideration the pot life of the mixture when estimating the amount to be mixed at a time. Before painting the base and hardener are mixed in right proportion. Stir thoroughly down to the bottom of the vessel. Inadequate stirring or incorrect mixing ratio results in imperfect curing and impaired film properties.

Application conditions

The surface to be painted must be dry. During the application and drying period the temperature of the ambient air, the surface and the paint shall be above +10°C and the relative air humidity below 80%. Additionally the temperature of the surface to be painted and the paint must be at least 3°C above the dew point of the ambient air.

Application

Before use stir the paint thoroughly.

If required, dilute the paint with TEKNOSOLV 9506.

Apply preferably by airless spray as only this method provides the recommended film thickness in a single operation. Use airless spray nozzle 0.017 - 0.021". Brush can be used for touching up and painting small areas.

ADDITIONAL INFORMATION

The storage stability is shown on the label. Store in a cool place and in tightly closed containers.

Additional instructive information for surface preparation can be found in standards EN ISO 12944-4 and ISO 8501-2.

The information of this data sheet is normative and based on laboratory tests and practical experience. Teknos guarantees that the product quality conforms to our quality system. Teknos accepts, however, no liability for the actual application work, as this is to a great extent dependent on the conditions during handling and application. Teknos accepts no liability for any damage resulting from misapplication of the product. This product is intended for professional use only. This implies that the user possesses sufficient knowledge for using the product correctly with regard to technical and working safety aspects. The latest versions of Teknos data sheets, material safety data sheets and system sheets are on our home pages www.teknos.com.



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