

# INERTA 51 MIOX

## Epoxy Paint with Special Pigmentation

**PAINT TYPE**  
**USAGE**

INERTA 51 MIOX is a two-pack solvent-borne epoxy paint. The paint is used as primer or intermediate coat in MIOX Epoxy Coating Systems K35 and as intermediate coat under TEKNODUR Polyurethane Top Coats in MIOX Epoxy Polyurethane Coating Systems K44 on structures to be exposed to severe atmospheric conditions.

**SPECIAL PROPERTIES**

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. For the product there is also available a Winter-hardener, INERTA 51 MIOX WINTER HARDENER, which is used when the paint is applied in temperatures below +10°C. The paint comes up to the specifications of Swedish Standard SSG 1021-SG.

**TECHNICAL DATA**

<b>Mixing ratio</b>	Base (Comp. A): Hardener (Comp B): INERTA PRIMER 5/INERTA 51 MIOX HARDENER	4 parts by volume 1 part by volume
<b>Pot life, +23 °C</b>	pot life using <u>standard hardener</u> 8 h	pot life using <u>WINTER-hardener</u> 3 h
<b>Solids</b>	55 ±2% by volume (ISO 3233:1988)	
<b>Total mass of solids</b>	abt. 1100 g/l	
<b>Volatile organic compound (VOC)</b>	abt. 400 g/l	
<b>Recommended film thickness and theoretical spreading rate</b>	Dry film (µm)	Wet film (µm)
	80	145
	100	180
	120	215
		Theoretical spreading rate (m <sup>2</sup> /l)
		6,9
		5,5
		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**

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

	using <u>standard hardener</u>	using <u>WINTER-hardener</u>
- dust free (ISO 9117-3:2010)	after 1 h	after 1 h
- touch dry (ISO 9117-5:2012)	after 4 h	after 4 h
- fully cured	after 7 d	after 7 d

**Overcoating intervals (dry film 80 µm)**

**The lowest usability temperature of the top coat is to be checked from the appropriate Data sheet. \*Maximum overcoating interval without roughening.**

Overcoating intervals using the **standard hardener**:

surface temperature	by itself, INERTA 50, INERTA 51 MIOX or TEKNOPLAST top coats		TEKNODUR 0050		other TEKNODUR top coats	
	min.	max.*	min.	max.*	min.	max.*
+10°C	16 h	6 kk	16 h	1 month	16 h	4 d
+23°C	5 h	6 kk	5 h	1 month	5 h	2 d

Overcoating intervals using the **WINTER-hardener**:

surface temperature	by itself		INERTA 50, INERTA 51 MIOX or TEKNOPLAST top coats		TEKNODUR top coats	
	min.	max.*	min.	max.*	min.	max.*
-5°C	24 h	3 months				
0°C	15 h	3 months				
+10°C	8 h	3 months	8 h	3 months	8 h	7 d
+23°C	4 h	3 months	4 h	3 months	4 h	7 d

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**  
**Finish**  
**Colours**  
**SAFETY MARKINGS**

TEKNOSOLV 9506  
Semi-matt  
Dark grey, red  
See Safety Data Sheet.

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**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 and the relative air humidity below 80%. When painting with the standard hardener the temperature of the ambient air, the surface to be painted and the paint shall be above +10°C during the application and drying period.

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.

When using INERTA 51 MIOX WINTER hardener the temperature of the ambient air and the surface to be painted shall be over -5°C. The temperature of the paint during the mixing and application shall be above +15°C.

**Application**

Before use stir the paint thoroughly.

If needed, thin 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.

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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](http://www.teknos.com).

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