

**INERTA 50 A**  
**Epoxy Top Coat and Varnish**

<b>PAINT TYPE</b>	INERTA 50 A on is a gloss two-pack epoxy reactive top coat and varnish.
<b>USAGE</b>	Used as a top coat in painting systems for steel surfaces specially in nuclear power stations.
<b>SPECIAL PROPERTIES</b>	<p>The paint withstands aqueous solutions of chemicals, oils, greases and solvents. It withstands dry heat up to +150°C.</p> <p>The paint comes up to the requirement specifications of STUK-YTO-TR 210: (Research Report 1481-28-05-RTE by the Technical Research Centre of Finland).</p> <p>The paint has been approved for use in the Russian Nuclear Power Plants. Report Nos. 3800-02/1075 and 3800-02/1299.</p> <p>The paint complies with requirements of ГООТ P 51102-97.</p>

**TECHNICAL DATA**

<b>Mixing ratio</b>	Base (Comp. A): Hardener (Comp B): INERTA 50 A HARDENER	3 parts by volume 1 part by volume	
<b>Pot life, +23 °C</b>	6 h		
<b>Solids</b>	paint: 48 ±2% by volume varnish: abt. 35 ±2% by volume		
<b>Total mass of solids</b>	paint: abt. 700 g/l varnish: abt. 400 g/l		
<b>Volatile organic compound (VOC)</b>	paint: abt. 480 g/l varnish: abt. 560 g/l		
<b>Recommended film thickness and theoretical spreading rate</b>	Dry film (µm)	Wet film (µm)	Theoretical spreading rate (m <sup>2</sup> /l)
	paint: 40	83	12,0
	50	104	9,6
	varnish: 40	114	8,8

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 at +23°C / 50% RH (dry film 40 µm)**

- dust free (ISO 9117-3:2010) after 1 h  
- touch dry (ISO 9117-5:2012) after 6 h

**Overcoatable, 50% RH (dry film 40 µm)**

surface temperature	by itself FOR OBJECTS IN ATMOSPHERIC EXPOSURE		by itself FOR SUBMERGED OBJECTS	
	min.	max.*	min.	max.*
<b>+10°C</b>	after 24 h	after 3 months	after 36 h	after 7 days
<b>+23°C</b>	after 12 h	after 3 months	after 12 h	after 7 days

\* 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.

<b>Thinner, clean up</b>	TEKNOSOLV 9506
<b>Finish</b>	Gloss
<b>Colours</b>	Can be adjusted individually for customers by agreement.
<b>SAFETY MARKINGS</b>	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:

**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.

**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 by brush or airless spray. Use airless spray nozzle 0.011 - 0.015".

**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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