

TEKNOPLAST HS 150 -EPOXY SYSTEM

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Intended to be used in nuclear power stations as a protective coating system for steel surfaces. The system consists of chemically curing solvent-borne two-pack epoxy paint.

ISO 12944-5:2019 symbol / corrosivity category / durability range	C5.03/C5/H
The coating system structure:	EP300/3- FeSa 2½
TEKNOPLAST HS 150 Epoxy Paint	3 x 100 µm
Total film thickness	300 µm
Paint system VOC, g/m ²	128

Marking of the coating system: ISO 12944-5/C5.03(EP300/3-FeSa2½).

USAGE

For protection of steel surfaces in nuclear power stations in non-controlled indoor areas, especially in spaces with high moisture content and condensation.

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.

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.

For more detailed information about the above-mentioned products please see individual product data sheets.

Application Stir the components until they are homogeneous before use. Mix base and hardener with each other in the proportions given on the paint labels and stir the mixture thoroughly. Take into consideration the pot life of the mixture when estimating the amount to be mixed.

Apply preferably by airless spray as only this method provides the recommended film thickness in a single operation. The temperature of the air and the surface as well as the relative air humidity during the application and drying period must conform to the figures given in the table. At elevated temperatures the drying process speeds up. The surface must be dry and free from dust.

The technical data of the paint are given in the table below and in the product data sheet.

Maintenance Repair, maintenance and renewal painting is done according to separate instructions given for the nuclear power plant, observing valid local orders issued by the authorities.

Technical Data

Paint	TEKNOPLAST HS 150	
Data Sheet	No.	113
Paint Type	two-pack epoxy paint	
Colours	by agreement	
Finish	semigloss	
Thinner	TEKNOSOLV 9506	
Methods of application	airless spray	
Airless spray nozzle	0.013 – 0.021"	
Application conditions		
- min. temperature	°C	+10
- max. relative humidity	%	80
Safety markings	See Safety Data Sheet	
Volume solids	%	70 ±2
Total mass of solids	g/l	abt. 1050
Volatile organic compound (VOC)	g/l	abt. 300
Recommended film thickness		
- wet	µm	143
- dry	µm	100
Theoretical spreading rate	m ² /l	7.0
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 5 h	
Overcoatable, 50% RH	by itself:	
	min.	max.*
+10°C	after 16 h	after 2 months
+23°C	after 5 h	after 1 month

* Maximum overcoating interval without roughening.