

# TEKNOZINC 90 SE

## Zinc rich epoxy paint

TEKNOZINC 90 SE is a two-pack solvent-borne zinc rich epoxy paint.

Used as a primer in polyurethane and epoxy coating systems.



Protects steel efficiently from underfilm corrosion and resists weathering even without any top coat.

The paint comes up to the specifications of both standard EN-ISO 12944-5 and the Swedish reference book 'Boverkets handbok om stålkonstruktioner' (BSK07). The zinc content of the paint is at least 90% by weight in the dry paint film.

The paint comes up to the specifications of Swedish Standard SSG 1022-GB.

TEKNOZINC SE WINTER HARDENER is to be used when painting at temperatures below +10°C.

## TECHNICAL DATA

<b>Certificates, approvals and classification</b>	Boverkets handbok om stålkonstruktioner (BSK07), EN ISO 12944-5, SSG 1022-GB		
<b>Recommended substrate</b>	Steel		
<b>Binder</b>	Zinc epoxy		
<b>Solids</b>	53 ±2% by volume (ISO 3233:1988)		
<b>Total mass of solids</b>	Approx. 2100 g/l		
<b>Volatile organic compound (VOC)</b>	Approx. 450 g/l (DIRECTIVE 2010/75/EU) The VOC value provided is the average value for factory produced products, and consequently it will be subject to variations between individual products covered by this Technical Data Sheet.		
<b>Theoretical spreading rate</b>	<b>Dry film (µm)</b>	<b>Wet film (µm)</b>	<b>Theoretical spreading rate (m<sup>2</sup>/l)</b>
	40	75	13.2
	60	113	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 dry film thickness of over 100 µm.		
<b>Practical spreading rate</b>	The values depend on the application technique, surface conditions, overspray, etc.		
<b>Colours</b>	Bluish grey.		
<b>Gloss (60°)</b>	Matt		
<b>Hardener</b>	Comp. B: TEKNOZINC 50 SE / 80 SE / 90 SE HARDENER		
<b>Mixing ratio (A:B)</b>	5:1 parts by volume		
<b>Pot life, +23°C</b>	16 h		

<b>Thinner</b>	TEKNOSOLV 9506
<b>Storage</b>	The storage stability is shown on the label. Store in a cool place and in tightly closed containers.

## DIRECTION FOR USE

<b>Surface preparation</b>	<p>Remove from the surfaces any contaminants that might be detrimental to surface preparation and application. Remove also water-soluble salts by using appropriate methods. The surfaces are prepared according to the different materials as follows:</p> <p>STEEL SURFACES: Remove mill scale and rust by blast cleaning to preparation grade Sa 2½ (standard ISO 8501-1).</p> <p>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.</p> <p>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.</p> <p>Additional instructive information for surface preparation can be found in standards EN ISO 12944-4 and ISO 8501-2.</p> <p>Prefabrication primer: KORRO SE Zinc Epoxy and KORRO SS Zinc Silicate Prefabrication Primers can be used, when required.</p>
<b>Application method</b>	<p>Airless spraying, Brush</p> <p>Suitable airless nozzle size (turn-nozzle) 0.018 - 0.021".</p>
<b>Application</b>	<p>MIXING OF THE COMPONENTS: Take into consideration the pot life of the mixture when estimating the amount to be mixed at a time. Before application 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.</p> <p>Stir the paint frequently in the course of work, about every half an hour, in order to prevent sedimentation of the zinc dust.</p>

### Application conditions

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

When using TEKNOZINC SE 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 is to be above +15°C. The surface to be treated must be free from ice.

<b>Drying time</b>	+23°C / 50% RH (dry film 40 µm)
<b>- dust free</b>	5 min (ISO 9117-3:2010)
<b>- touch dry</b>	30 min (ISO 9117-5:2012)
<b>- fully cured</b>	7 d

Overcoatable	surface temperature	by itself, with TEKNOPLAST PRIMER 7 or TEKNOPLAST HS 150		with TEKNODUR COMBI 3560-05 or TEKNODUR COMBI 3560-75		with INERTA PRIMER 5, TEKNOPLAST PRIMER 3, TEKNOPLAST PRIMER 5, INERTA 51 MIOX, INERTA MASTIC (MIOX) or TEKNOPOX AQUA PRIMER 3 (MIOX)	
		min.	max.*	min.	max.*	min.	max.*
		+10°C	6 h	18 months	6 h	12 months	6 h
+23°C	1 h	18 months	1 h	12 months	1 h	3 months	

\* Maximum overcoating interval without roughening.

A completely clean surface is mandatory to ensure the best intercoat adhesion. If the maximum overcoating interval has been exceeded, the surface must be roughened before overcoating. Increase in film thickness and rise in the relative humidity of the air in the drying space slow down the drying process and effect the overcoating properties.

**Cleaning** TEKNO SOLV 9506

## HEALTH AND SAFETY

**Safety and precaution measures** See safety data sheet.

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