

## 10500 KANAT ZnR-SILICATE PRIMER

## PRODUCT DESCRIPTION

**10500 KANAT ZnR-SILICATE PRIMER** is a two component, solvent borne, zinc-rich ethyl silicate primer. Zinc content in the dry film conforms to SSPC-Paint 20, Level 2 and ISO 12944 standards. It is resistant to dry temperatures up to 540°C.

## RECOMMENDED USE

It is used as an anti-corrosive coating for;

- Bridges
- Ship structures
- Structural steels
- Offshore structures -oil platforms
- Chemical plant tanks, pipes and heat exchangers
- Storage tanks interior of petroleum products.

or similar applications as a primer in a multi-layer systems demanded from C2 to C5, also CX corrosion category and Im4 immersion category according to ISO 12944-5 & 12944-9.

## PRODUCT CHARACTERISTICS

Finish: Matt	Density (g/ml) 2,46±0,10
Colour: Grey	Spreading Rate (m <sup>2</sup> /l) 8,27 (75 microns DFT)
Thinner: Kanat Thinner 0660 (Low Temp.) Kanat Thinner 0665 (High Temp.)	Flash Point Not Applicable
Mixing Ratio (by volume) 2,70 Parts A Comp. + 9,30 Parts B Comp.	VOC ( Volatile Organic Content) 450 g/l
Mixed Product; Volume Solids (%) 61±2	Application Methods Airless spray, Conventional spray
	Pot Life (20°C) 8 hours

## DRYING SCHEDULE(\*)

(75 microns dry film thickness)

	Dry to Touch	Hard Dry	Dry to Over Coat Minimum
5°C	60 minutes	90 minutes	-
15°C	25 minutes	45 minutes	-
25°C	15 minutes	30 minutes	-
35°C	10 minutes	20 minutes	-

Drying values are valid for defined dry film thickness and minimum 50% preferably above 65% relative humidity. Complete curing: 10 hours (25°C and 75% RH). Below 75% relative humidity complete curing delays. As film thickness increases, curing time may be longer. Ventilation decreases curing time.

Curing time to be verified by MEK-test (ASTM D 4752:2010). Ready for recoating if complete curing is achieved.

## PACKAGING

One kit of **10500 KANAT ZnR-SILICATE PRIMER** is 12 l.

One pail of **10500 KANAT ZnR-SILICATE PRIMER** component A is 2,70 l

One can of **KANTEX HARDENER 0508** component B is 9,30 l.

## SHELF LIFE

Part A–4 years, Part B–6 months maximum shelf life when the material is stored indoors at 25°C in unopened original containers. Store the product in a dry, well ventilated place. Shelf life is reduced at temperatures above 25°C. If part B is gelled or if the mixed product causes gels, the shelf life is exceeded, do not use the material.

## HEALTH/SAFETY PRECAUTIONS

Refer to the MSDS sheet prepared according to EU directives before use.

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### SURFACE PREPARATION

Surfaces must be dry, clean, free of oil, grease and other foreign material.

**New Steel Surfaces:** To ensure good adhesion and zinc-steel contact;

- Remove surface defects of welding and dirt from the surface by proper means.
- Use mechanical cleaning for welding defects.
- Clean oil and grease with solvent conforming to SSPC-SP1.
- Surfaces should be grit or grit/shot blasted to near-white metal surface cleanliness according to SSPC-SP10 or ISO 8501-1 minimum Sa 2½, preferably Sa 3. Blast profile on steel should be 50–75 microns in depth.
- Remove blast residue by proper means.
- Depending on ambient conditions, blasted surfaces must be primed in the same day after blasting with **10500 KANAT ZnR-SILICATE PRIMER**.

**Previously Painted Surfaces:** Remove all the old paint to bare steel by abrasive blasting.

### APPLICATION PROCEDURES (Mixing Procedure)

This is a two-component paint. Do not mix more material than you plan to use within the listed pot life. Complete containers must be mixed at one time. DO NOT MIX PARTIAL QUANTITIES FROM CONTAINERS OR PROPER COMPONENT RATIOS MAY NOT BE OBTAINED. Prior to mixing, components A Base and B Hardener should be at room temperature. Combine 9,30 parts by volume of Part B (silicate solution) with 2,70 parts by volume of part A (zinc dust). Before mixing the two components shake part B (silicate solution) thoroughly. Add part A (zinc dust) to part B (silicate solution) under continuous stirring with a power mixer until a homogenous mixture is obtained. Add thinner if necessary and wait 10-15 minutes for induction before use. Mixed product must be used within 8 hours (20°C).

### MIXING RATIO

Base 10500 : Curing Agent 0508  
0,3 : 1 by volume

### APPLICATION CONDITIONS

For the best results;

Temperature must be more than 0°C during the application and/or the curing process.

**Surface temperature:** At least 3°C above dew point.

**Relative humidity:** Minimum 50% preferably above 65% relative humidity during application is required.

### APPLICATION

Apply paint at the recommended film thickness and spreading rate. Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance. There is no limitation for maximum recoating interval provided that surface is free of oil, grease and other foreign material.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas and pinholes. If necessary, cross spray at a right angle.

### CLEAN UP

**KANAT THINNER 0644, KANAT THINNER 0660, KANAT THINNER 0665**

### APPLICATION EQUIPMENT

(The table is a guide for 20°C)

Application Equipment	Airless Spray	Conventional Spray
Thinner maximum	10%	20%
Pressure minimum (bar)	100	2,5
Nozzle (inch)	0,017 - 0,025	1,6 - 2,2

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### PRECAUTIONS

- For recoating complete curing must be achieved. It can be checked by rubbing the coating with a **KANAT THINNER 0693** soaked rag according to ASTM D4752:2010.
- At low humidity conditions, to accelerate curing of the coating, the surface can be sprayed with water 24 hours after application until complete curing of the coating is achieved.
- Do not apply more than 125 microns (5 mils) DFT to prevent mud-cracking.
- Do not apply the paint on a pre-construction primer or on previously painted surfaces.
- Long overcoating intervals may lead to zinc corrosion products (white rust). Remove white rust with a stiff brush and clean the surface with appropriate detergent and/or pressurized fresh water. Avoid mechanical cleaning that would decrease DFT of the film.

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