BERGER

PROTECTIVE COATING

ZINCANODE 300

Zinc Silicate Shop Primer

PRODUCT DESCRIPTION

A two component, fast drying, weldable zinc ethyl silicate pre-fabrication primer for application by manual or automatic spray equipment.

DESIGNED FEATURES

As a temporary protective primer for blasted steel substrates prior to the fabrication process.
Fast drying for easy and quick handling of coated steel.
Good anti-corrosive performance.
Able to withstand continuous surface dry heat temperatures of up to 400ºC.
Approved as a weldable primer by Lloyd's Register of Shipping.
Can be overcoated with a wide range of high performance coatings for use in a variety of environments such as offshore structures, petrochemical plants, bridges, pipelines etc.

PHYSICAL CHARACTERISTICS

Recommended Application Data	Wet [µm]	Dry [µm]	m^2/l
Theoretical Coverage	54	15	18.67

Volume Solids	**28 %**
Dry Film Thickness Range	**15 µm to 25 µm**
Flash Point	**-10 ºC**
Finish	**Matt**
Colour Range	**Grey**
Standard Packing Size	**20 litres set (8.9 litres Converter : 11.1 litres Paste)**
Mix Ratio (by volume)	**1.0 Converter : 1.25 Paste**

APPLICATION METHOD

AIRLESS SPRAY **Recommended method of application**	Tip Size : 0.43 – 0.58 mm (0.017 – 0.023 inch)
	Pressure : 110 –160 kg/cm² (1600 – 2300 psi)
CONVENTIONAL AIR SPRAY	Also recommended.
BRUSH OR ROLLER	For touch up and small areas only.
Pour the Coverter into the Paste component slowly whilst stirring with a mechanical agitator. Sieve material before application. Keep pot constantly agitated during spraying to prevent the zinc settling out.	

DRYING & CURING TIME

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval		Pot Life
			Minimum*	Maximum	
15°C	3 minutes	5 minutes	24 hours	Indefinite	8 hours
25°C	3 minutes	4 minutes	24 hours	Indefinite	6 hours
35°C	3 minutes	3 minutes	24 hours	Indefinite	4 hours

USEFUL INFORMATION

Thinner / Cleaning solvent	:	SOLVALUX 7-77 (Maximum 10% addition)
CLEANER	:	SOLVALUX 7-77
STORAGE	:	Store in a cool dry shaded area.

SURFACE PREPARATION

The service life span and the service performance of ZINCANODE 300 is directly related to the degree of surface preparation.

STEEL

- Remove all wax, oil and grease by solvent cleaning in accordance with the guidelines given by SSPC-SP1. Where necessary removes weld spatter and round off all rough weld seams and sharp edges to a smooth surface.
- Abrasive blast clean to a minimum standard of Sa2½ (ISO 8501-1:1988) or SSPC-SP10. The blast profile should have an angular configuration.
- Ensure that all surface defects detected after blast cleaning is ground, filled or treated in a suitable manner.
- After blasting, remove dust from the surface. Ensure that the surface to be coated is clean, dry and free from any contaminants.
- Apply Zincanode 300 immediately after blasting to avoid oxidation and recontamination of the steel surface. In case of oxidation or recontamination, re-blast to the required standard.

To avoid condensation of moisture onto substrate prior to coating application, relative humidity should not exceed 85% and substrate temperature should be more than 3°C above Dew Point.

NOTES

- Application by automatic spray is strongly suggested. If spraying by manual spray, care must be taken to avoid dry spray and over-application.
- Generally, the thicker the application thickness up to (50µm dft), the longer will be the period of protection. Typically for up to 9 months protection a dft of 25µm is required.
- Over-application beyond recommended film thickness' would result in increased weld porosity and level of weld fumes.
- This product requires moisture in the atmosphere to cure. It will not cure completely or adequately if the Relative Humidity falls below 50%. In such cases, a steam or water spray may be required to complete cure before overcoating.
- Failure to obtain adequate coverage of the blast profile and uneven application thickness may result in premature rusting of the substrate.
- This product is compatible with both sacrificial and impressed current cathodic protection. Prior to overcoating this product, it is essential that all zinc corrosion products, soluble salts and other contaminants are thoroughly removed from the surface.

SAFETY PRECAUTIONS

- Avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use barrier cream.
- This product contains low flash point solvents, do not use in poorly ventilated areas especially in confined tank interiors.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe in vapour or spray mist.
- This product is flammable. Keep away from sources of ignition. Do not smoke.
- Take precautionary measures against static discharge.
- In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

FIRST AID

- Eyes: In the event of accidental splashes, flush eyes with water immediately and obtain medical advice
- Skin: Wash skin thoroughly with soap and water or approved industrial cleaner.
- DO NOT USE solvent or thinners.
- Inhalation: Remove to fresh air, loosen collar and keep patient rested.
- Ingestion: In case of accidental ingestion. DO NOT INDUCE VOMITING.
- Obtain immediate medical attention.
- For further safety information, please refer to our **Material Safety Data Sheet (MSDS)**

DISCLAIMER

The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which he wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate, or other factors affecting the use of this product, we are not responsible for its performance nor would we accept any liability whatsoever or howsoever arising from the use of this product unless specifically agreed to in writing by us. The information contained in this data sheet may be modified by us from time to time, and without notice, in the light of our experience and continuous product development.

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