





DRI-GARD ZN-80

Film Galvanizing System

DRI-GARD ZN-80 is a ready-to-use zinc rich coating and allows galvanic protection by standard painting application methods. It is a cold galvanizing compound that effectively prevents the corrosion of steel substrates in the same manner as hot dip galvanizing. When applied to a ferrous surface, the zinc in **DRI-GARD ZN-80** sacrifices itself to protect the substrate.

FEATURES/BENEFITS

- ✓ Anti-corrosion protects steel with galvanized reactions
- ✓ Fast drying
- ✓ Single coat protection
- ✓ Easy application
- ✓ As a protective primer in multi-coat paint systems

APPLICATION AREAS

- ✓ Steel structures
- ✓ Reinforcement steel bars
- ✓ Repair material for galvanized steel that has been damaged mechanically





Product Data

Appearances / Colors	Matt
Packaging	5kg cans
Storage	12 Months from date of production
Storage Condition	Kept in cool, dry, well ventilated place and protected from extreme heat and high
	temperature. Containers must be kept tightly closed.

Technical Data

Origin	Synthetic polymer ba	Synthetic polymer based zinc rich coating		
Temperature Resistance (dry)	-40 °C – 120 °C (with	peaks up to 150°C)		
Solid Content	~ 80% (by volume)			
Chemical Resistance	Exposure	Splash & Spillage	Fumes	
	Acids	Poor	Poor	
	Alkalis	Poor	Poor	
	Solvents	Poor	Good	
	Salt Water	Excellent	Excellent	
	Water	Excellent	Excellent	

Application conditions

Consumption	 Recommended Thickness: 60 microns (dry film thickness, DFT) Theoretical Coverage: 0.28 kg/m² at 60 microns DFT 0.55 kg/m² for 120 microns DFT No. of coats: 1 or 2 coats recommended
Drying time (Subjected to environmental conditions)	 Touch dry: 15 minutes Dry to handle: 1 hour Fully cured: 48 hours
Overcoating time	 Application by brush: 2 hours after touch dry Application by spray gun: 1 hour after touch dry The maximum overcoat time depends on environmental conditions. If zinc salts have formed, they should be removed prior to application.
Thinning	 Brush/Roller: 3 – 5% Conventional Spray: 10 – 20% Airless Spray: 5 – 7%



SUBSTRATE

Cleanliness

The metal substrate should be degreased, preferably by steam-cleaning at 140 bar at 80 °C, and subsequently gritblasted/slurry-blasted to cleanliness degrease SA 2.5 (according to ISO 8501-1:2007 or SSPC-SP10 and NACE nr 2). The surface should be free from rust, grease, oil, paint, salt, dirt, mill scale and other contaminants. Once the grit-blasting is completed, the surface should be de-dusted with noncontaminated compressed air (according to ISO 8502-3 (class 2)) or in case of slurry-blasting, the surface should be dried with non-contaminated compressed air. Another method to obtain clean surface is UHP water-jetting to cleanliness degree WJ2 (according to NACE nr 5 and SSPC-SP12 level SC1). This degree of cleanliness is also needed when applying subsequent layers of DRI-GARD ZN-80.

For non-immersed substrates, DRI-GARD ZN-80 may be applied on mild flash rust (FWJ-2) occurring (after wet blasting) in the allowed time limit, however results may not be optimal. For immersed substrates, DRI-GARD ZN-80 can only be applied on a SA2.5 prepared surface with contaminants to NACE No5/SSPC SP-12 level SC1.

On small areas/non-critical applications, DRI-GARD ZN-80 may be applied on a surface that is manually prepared to a degree of St 3 according to ISO 8501-1.

Roughness

DRI-GARD ZN-80 should be applied on metal substrate that has roughness grade of fine to medium G (Rz 40 to 70 microns) according to ISO 8503-2:2012. This may be obtained by gritblasting (with sharp particles) but not shot-blasting (spherical particles). Ensure that surface is degreased before grit blasting.

This high degree of roughness is not needed wen DRI-GARD ZN-80 is applied on a hot-dip galvanization or a metallization layer, or when it is applied on existing DRI-GARD ZN-80 coatings. Old hot-dipped surfaces have adequate roughness, new hot-dipped surfaces require a sweep blast.

APPLICATION & TOOLS

Do not apply when the surface temperature is less than 3° C above the dew point. DRI-GARD ZN-80 can be applied by brush, roller, conventional spray-gun or airless spraying. Hold gun 8-10 inches from the surface and at a right angle to the surface. Make a 50% overlap with each pass of the gun.

Clean all tools and application equipment with thinner immediately after use. Hardened and/or cured material can only be removed mechanically.

LIMITATIONS

- Not recommended for immersion without suitable top coats
- ❖ Not recommended for exposure to strong acids and alkalis
- Do not apply on damp or wet surface

HEALTH & SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of these products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance to the manufacturer recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.