Tiger Brand Zinc Rich Primer ZRP 3085

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Salt Spray Results After 1000 Hours (ASTM B117)

Background

Tiger Brand Zinc Primer ZRP 3085 is a two component epoxy zinc rich primer designed to provide excellent corrosion protection. This coating provides corrosion protection through barrier and galvanic action.

ZRP 3085 is formulated in compliance with SSPC20, Type 2, and Level 1. Contains zinc dust equal to or greater than 85% in the dried film.

Barrier Protection

The reaction between the two components forms a highly crosslinked film on the ferrous or metallic substrate. This impervious film is an excellent barrier against corrosion elements like water and salt, thereby prevents corrosion through isolating the substrate.

Galvanic Action (Protection)

In the event there is damage to the coating, there is a possibility that the barrier property of the coating is compromised. ZRP 3085 can circumvent corrosion through galvanic protection. The high zinc dust loading in the coating allows the zinc dust to come in contact with the ferrous or metallic substrate after curing. Instead of the ferrous substrate that normally corrodes, the zinc dust is sacrificed through galvanic action. Furthermore, the zinc salts formed from the corrosion of zinc dust seals the pores in the coating and thereby protecting the ferrous substrate from further corrosion.

Salt spray testing was conducted in accordance to ASTM B117 to evaluate the coating anticorrosive protection on steel panels.

The results are shown below.

Coating System

Tiger Brand Zinc Rich Primer ZRP 3085

1st coat	Tiger Paint Two Component Zinc Rich Primer ZRP3085	Grey	100 microns (dry)
		Total	**100 microns (dry)**

Coating System: Zinc Rich Primer ZRP 3085 (DFT 100 microns)
Prior To 1000 Hours Salt Spray Testing

Coating System: Zinc Rich Primer ZRP 3085 (DFT 100 microns)
After 1000 Hours Salt Spray Testing

Results After 1000 hours

Blistering (ASTM D714):	None
Rusting (ASTM D610):	None