

## TECHGUARD 101

EPOXY- POLYAMIDE ZINC RICH PRIMER

### DESCRIPTION

**TECHGUARD 101** is a two component organic zinc rich primer, which provides optimal galvanic protection for steel surfaces exposed to corrosive environments. This effective action is derived from the galvanic couplers formed between the zinc coating and the metal substrate. This protection exists even if the primer is scratched or gouged.

### TECHNICAL INFORMATION

#### CHARACTERISTICS

Color	:	Zinc Grey
Generic Type	:	Epoxy- Polyamide
Pigment Type	:	Metallic Zinc Dust
Volume solids (Mixed)	:	37%
Theoretical Coverage	:	40 sq.ft. / ltr
Film Thickness Dry	:	40μ
Dry Time @ 70°F	:	
- To touch	:	4.0 Hrs.
- To recoat	:	16 Hrs.
Dries By	:	Chemical Cure
Dry Heat Resistance	:	350°F
Viscosity (Mixed)	:	25+/- 5sec by F/C 4
Flash Point	:	84°F
Application	:	Surface must be dry and above 5°above the dew point
Reduction	:	Brush do not Thin
	:	Roller do not Thin
	:	Spray do not Thin
Clean Up Thinner	:	Xylene
Mixing Ratio	:	100 : 20 by wt.
Induction time	:	30 Min.
Pot Life@70°F	:	2-3 Hrs. weight per Ltr (mixed)
Storage temperature	:	Min. 40°F
	:	Max. 100°F

### FEATURES / ADVANTAGES

- Dry film contains 80% of zinc dust.
- Provides optimal galvanic protection for steel, excellent chemical resistant base for high performance topcoats.
- Protects metal substrate exposed to corrosive environments.

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#### DIRECTION FOR USE

##### BARE STEEL

All surfaces shall be free of rust, mill scale, and contaminants such as oil, grease, dirt, and salts. Before any surface preparation is attempted, oil and grease must be removed by employing SSPC- SP1 solvent cleaning. For large areas, use oil and grease emulsifier.

##### FOR BEST PERFORMANCE

Use commercial blast cleaning to SSPC- SP6 to remove mill scale, rust and other contaminants and leave a roughened surface.

Use power tool cleaning to bare metal SSPC- SP11 to remove mill scale, rust and other contaminants and leave a roughened surface.

##### APPLICATION INFORMATION

Generally, Techguard 101 is best applied by a spray. Due to the rapid drying of this coating only small areas may be coated by a brush applicator pad or a roller must be taken to achieve the specified wet and dry thickness so that even & uniform coats are obtained.

##### APPLICATION EQUIPMENT

- DeVilbis or Equivalent Equipment
- Air spray: MBC 510 Gun (stainless steel) "E" tip and fluid needle, 64 or 765 Air Cup, Mastic Spring, Teflon
- Packing: Maximum of 5 ft. 5/16" (7.94 MM) I.D. Air and 1/2" (12.70 MM) I.D. Fluid Hose
- Atomization Pressure: 50 PSI, Fluid Pressure: 15 PSI.
- Airless Spray: Utilize only equipment recommended by the manufacturer as being suitable for application of zinc rich Products. Continuous agitation of mixed material is required during application.

Equipment's must be capable of maintaining 1500 PSI at the tip. Hose length in excess of 25 ft. and work at heights greater than 10 ft. above the pump are to be avoided. These conditions promote zinc setting in the fluid hose with resulting top plugging and non uniform distribution of zinc in the applied film.

##### REPAIR OF DAMAGED SPOTS

This product is also recommended for filed touch up of shop applied inorganic zinc primer prior to application of high performance topcoats.

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### PRECAUTION

**DANGER! FLAMMABLE!** Contains xylene! Keep away from heat, sparks and flame. Avoid breathing the vapour. Use with forced air ventilation in confined areas. Avoid contact of resin or hardener with skin or eyes. In case of eye contact, flush immediately with plenty of water and consult a physician. Do not take internally.

- Not to be applied when air and surface temperatures are below 50°F
- Must be top coated with appropriate coating when used in corrosive environments
- Caution when opening containers- gassing may occur
- Not for immersion or for exposure to acids & alkalis without proper topcoats.

### PACKING

4 liters and 20 liters containers