

ABADUR-201 TWO COMPONENTS POLYAMIDE CURED EPOXY ZINC RICH PRIMER

DESCRIPTION

A two component polyamide cured epoxy zinc rich primer with a superior resistance to water, weather and abrasion. It gives a cathodic protection film with the maximum performance on structural steel, machinery, pipes and tanks exterior in paper mills, oil refineries, power plants, chemical process and waste treatment plants as well as decks, hulls and superstructures of ships, barges and workboats, offshore platforms and related structures. With a proper topcoat, withstands splash or spillage of water, solvents, chemicals and petroleum products. Like all primers, ABADUR-201 alone is not suitable for immersion in acid or alkaline solutions.

FIELD OF APPLICATION

- Refineries
- Marine structures
- Chemicals tanks
- Wastewater treatment plants

ADVANTAGES

- High adhesion to surface
- High mechanical strength
- Abrasion resistant
- Water and chemical resistance

SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:1992. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Surface preparation shall not take place in the following conditions:

- 1- At temperature below 5 °C.
- 2- For the relative humidity greater than 85%.
- 3- When the metal surface temperature is less than 3 °C above the dew point.
- 4- Outside day light hours on exterior locations

Apply ABADUR-201 as soon as possible after surface preparation to prevent rusting.

Abrasive Blast Cleaning

ABADUR-201 must be applied to surfaces blast cleaned to a minimum of Sa2½ (ISO 8501-1:1988) or SSPC-SP10. If oxidation has occurred between blasting and application of ABADUR-201, the surface should be reblasted to the specified visual standard. For thin layer systems a sharp, angular surface profile of 50-70 microns is recommended. For heavy duty systems angular surface profile of 75-100 microns is recommended.

Shop primed Steelwork

ABADUR-201 is suitable for application to steelwork freshly coated with zinc silicate shop primers. If the shop primer shows extensive or widely scattered breakdown, or excessive zinc



corrosion products, overall sweep blasting will be necessary. Other types of shop primer are not suitable for overcoating and will require complete removal by abrasive blast cleaning. Weld seams and damaged areas should be cleaned to Sa2 ½ (ISO 8501-1:1988) or SSPC-SP10.

APPLICATION

Material is supplied in two containers as a unit. Always mix a complete unit in the proportion supplied. Once the unit has been mixed it must be used within the working Pot life specified.

1-Agitate part A with a power agitator.

2-Combined entire contents of curing agent (part B) With Base (Part A) and mix thoroughly with power agitator. Stir during application to maintain uniformity of material.

-To prevent moisture condensation during application, surface temperature must be at least 3 °C above the dew point.

-In hot climate, material temperature should be 20 to 25 °C prior to mixing; otherwise pot life becomes very short.

-For satisfactory cure, air and surface temperature must be above 10 °C

-Paint shall not be applied when wind speed is in excess of 7 m/s.

APPLICATION EQUIPMENT

Air less Spray	Tip range 0.017-0.021 inch Total output pressure at spray tip not less than 141 Bar (2000 psi)
Air Spray	Nozzle orifice 1.8-2.2mm Nozzle pressure: 3-6 Bar (43-87 psi)
Brush	Typically 40-60 microns can be achieved.
Roller	Typically 40-60 microns can be achieved.

TECHNICAL PROPERTIES

Color	Grey
Mixing Ratio (A:B)	100:8 (by weight)
Density (A+B)	0.3 ± 0.1 g/cm ³
Volume solid	60 ± 3 %
Coverage	8 m ² /lit (75 micron dry film thickness)
Typical dry film thickness	60-75 µm
Number of coat	One
Amount of added thinner	5% - 10%
Application method	Conventional or airless spray, brush or roller
Substrate	Blasted steel
Induction time	20-30 minutes
Flash point	28°C
Thinner/Cleaner	T-200

Drying Time

Temperature	Touch dry	Hard dry	Over-coating		Full cure
			Min	Max	
15°C	70 minutes	16 hrs	18 hrs	*	12 days
25°C	40 minutes	14 hrs	12 hrs	*	7 days
40°C	20 minutes	10 hrs	10 hrs	*	3 days

* months when free from zinc salts and contamination. Zinc rich primers can form zinc salts on the surface so should not be exposed to long periods prior to overcoating

Pot life

Material temperature	15°C	25°C	40°C
Pot life	9 hrs	6 hrs	4 hrs

PACKAGING

27 kg set
Part A (Base): 25 kg
Part B (Hardener): 2 kg

STORAGE & SHELF LIFE

The shelf life is 12 months if unopened, stored free from frost, moisture and direct sunlight. Keep in the temperature range between +10°C and +30°C.

HEALTH & SAFETY

This product is Flammable. Keep away from heat and open flame .Keep container closed .Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

- 1-Circulate adequate fresh air continuously during application and drying.
- 2-Use fresh air masks and explosion proof equipment.
- 3- Prohibit all flames, sparks, welding and smoking.

MSDS is available at ABADGARAN website.

TECHNICAL SERVICE

The ABADGARAN INTERNATIONAL GROUP Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.



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Chemicals Producers
Membership



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Tunneling
Association
Membership



Iran Standard's Mark
Holders Association
Membership



ISO 9001:2008
TÜV NORD Iran PJS



National Accreditation
Center of Iran
ISO / IEC 17025



Iranian Concrete
Institute
Membership



Ministry of Industry,
Mine and Trade
R & D Certificate