

ABADUR-280

SOLVENT FREE HIGH BUILD, PROTECTIVE EPOXY RESIN COATING

DESCRIPTION

ABADUR-280 is a protective epoxy resin coating specifically designed to protect concrete and metal. Supplied as a two-component system, it requires only on site mixing to produce an easily applied decorative and chemically resistant finish. Due to epoxy modification, it is suitable to use in exterior area and provides high gloss, heavy bodied, ultra dense surface. This coatings will not support the growth of bacteria. The standard color is light grey.

ADVANTAGES

- Excellent chemical resistance
- Resists chemical attack by chloride and salts of sea water
- Non-toxic and applicable in hygienic environments
- High durability

FIELD OF APPLICATION

- Concrete and metal storage tanks
- Chemicals, oil and fuel reservoirs
- Pipeline coatings

SURFACE PREPARATION OF CONCRETE

It is most important to ensure that thorough surface preparation is undertaken prior to application of the coating. All surfaces to be coated should be clean, dry and free from contamination. Ensure concrete is free from excessive laitance, grease, oil, curing compound, etc. Ensure concrete is sound, cutting back where necessary and making good using suitable ABADUR repair systems.

Concrete should be cured for a minimum of 28 days prior to coating. The moisture content of the concrete should be below 4%. All surfaces should be clean and dry. All Cracks and pinholes in the concrete shall be filled by ABADUR repair system.

SURFACE PREPARATION OF METAL

The performance of this product will depend upon the degree of surface preparation. The surface to be coated must be clean and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive blast clean to Sa2½ (ISO 8501-1:2007) or SSPC-SP6. If oxidation has occurred between blasting and application of ABADUR-280, the surface should be reblasted to the specified visual standard. Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner. A surface profile of 50-75 microns (2-3 mils) is recommended.



Hand or power tool clean to a minimum St3 (ISO 8501-1:2007) or SSPC-SP3 for atmospheric use only. Note, all scale must be removed and areas which cannot be prepared adequately by chipping or needle gun should be spot blasted to a minimum standard of Sa2 (ISO 8501-1:2007) or SSPC-SP6. Typically, this would apply to C or D grade rusting in this standard.

Primed surfaces

ABADUR-280 can be applied over approved primers or ABADUR repair systems. The primed surface should be dry and free from all contamination, and ABADUR-280 must be applied within the over-coating intervals specified.

Surface preparation shall not take place in following conditions:

- At temperature below 5 °C.
- When the relative humidity greater than 80%.
- When the surface temperature is less than 3 °C above dew the point.
- Outside day light hours on exterior locations

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 and B separately with a power agitator.

2-Combine entire contents of curing agent (part B) with base (part A) and mix thoroughly with power agitator

3-Mix thoroughly for at least three minutes, scraping the container bottom and side to assure complete mixing. There is no induction or waiting time required after mixing before application.

ABADUR-280 coating can be applied using good quality rollers or short haired brushes or by airless spray. For application by airless spray, use a 45:1 or higher ratio pump, minimum 9mm dia hoses and HD tip 19-23 thou. ABADUR-280 can be applied using good quality rollers or short haired brushes.

It is recommended that ABADUR-280 coating be applied in two coats to ensure complete coverage. Prior to the application of each coat the surface should be examined for signs of pin-holing, etc. Where pin-holing is evident these should be filled using ABADUR repair system.

If the over-coating is delayed more than the drying time table, the previous coat must be thoroughly abraded to give an adequate mechanical key and solvent wiped.

TECHNICAL PROPERTIES

Color	Grey
Mixing Ratio (by weight)	1:1
Density (A+B)	1.75±0.10 g/cm ³
Volume solid	100%
Coverage	0.35-1.75 kg/m ²
Typical dry film thickness	200-1000 microns
Number of coats	Two
Application method	Roller, brush or airless spray
Substrate	Concrete, metal
Chemical resistance against sulfuric	Excellent



acid (50%)

Chemical resistance against caustic soda (50%)

Excellent

Resistance against seawater

Excellent

Adhesion to Concrete

> 2.5-3 N/mm² (Concrete failure)

Cleaner

T-200

Drying Time

Temperature	Touch dry	Over-coating		Full cure
		Min	Max	
15°C	9 hrs	32 hrs	3 days	13 days
25°C	6 hrs	24 hrs	2 days	7 days
40°C	4 hrs	17 hrs	1 day	4 days

Pot life

Material temperature	15°C	25°C	40°C
Pot life	90 min	55 min	20 min

PACKAGING

15kgs set

STORAGE & SHELF LIFE

The shelf life is 12 months if unopened, stored free from frost, moisture and direct sunlight.

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.

