

ABADUR-280

SOLVENT FREE HIGH BUILD, PROTECTIVE EPOXY RESIN COATING

DESCRIPTION

ABADUR-280 is a protective epoxy resin coating specifically designed to protect concrete. Supplied as a two components 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.

ADVANTAGES

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

FIELD OF APPLICATION

- Concrete 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 MP 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 shall not take place in following conditions:

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



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مرکز ملی تایید صلاحیت ایران
ISO / IEC 17025



مجوز صادرات
به اتحادیه اروپا



استاندارد ملی ایران



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 MP 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 | 1:1 (by weight) |
| Density (A+B) | Approx. 1.75 g/cm ³ |
| Volume solid | 100% |
| Coverage | 0.35-1.75kg/m ² /coat, two coats are recommended |
| Typical dry film thickness | 200-1000 microns |
| Number of coats | Two |
| Application method | Roller, brush or airless spray |
| Substrate | Concrete |
| Chemical resistance against sulfuric acid (50%) | Excellent |
| Chemical resistance against caustic soda (50%) | Excellent |
| Resistance against seawater | Excellent |
| Flash point | 80°C |
| 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 | 18 hrs | 1 days | 4 days |



Pot life

| Material temperature | 15°C | 25°C | 40°C |
|----------------------|--------|--------|--------|
| Pot life | 90 min | 45 min | 20 min |

STORAGE & SHELF LIFE

Shelf life: 12 months in unopened original package.

Storage condition: should be protected from frost, direct sunlight and moisture. Keep containers in the temperature range between +10°C and +30°C.

Packing: Pre-batched Part A: 7.5 kg & Part B: 7.5 kg units, 15 kg at Total.

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 safety 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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