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Kansai Paint Iranian

# A570-3003

## HIGH SOLID GLASS FLAKE EPOXY COATING

**GENERIC TYPE**

Epoxy

**DESCRIPTION**

A570-3003 is a two component, polyamine cured, low VOC high build glass flake epoxy coating.

**RECOMMENDED USE**

As a low VOC epoxy coating with excellent chemical resistance and mechanical properties, suitable for marine structures. High-performance abrasion, chemical, and corrosion resistance. It protects both steel and concrete structures in severe environments including marine structures petroleum and heavy industrial facilities.

**FEATURES**

- Excellent mechanical strength
- High resistance against crude oil
- High chemical resistance against acids and alkalis
- Applicable in high film thickness
- High sea water resistance or use in splash and tidal zone
- High film build, high solids, low VOC
- Ease of application

**PHYSICAL PROPERTIES**

| | |
|---|---|
| Finish | Semi flat - Semi-gloss |
| Color | Limited |
| Solid by volume | 90±3% |
| Specific Gravity | 1.45±0.1 gr/cm$^3$ |
| Flash point | 48 °C |
| Recommended D.F.T. | 300-500 microns |
| Theoretical coverage | 1.80-3 m$^2$/Lit<br>Practical coverage depends on the loss factor |
| Touch dry | 8 hrs. at 20°C |
| Hard dry | 24 hrs. at 20°C |
| Fully cured | 7 Days at 20°C |
| Thermal resistance | Max. 140°C (dry exposure) |

## APPLICATION

| | |
|---|---|
| Application method | Airless spray, Brush, Roller |
| Surface temperature | 10-40 °C |
| Mixing ratio(by weight) | 4:1 |
| Packaging(A+B) | 20KG+5KG |
| Hardener(B) | A275-2006-1003 |
| Thinner/cleaner | A840-0570 |
| Pot Life | 1:30 hrs. at 20°C |
| Recoat interval | Min 24 hrs. at 20°C<br>Max 3 Days at 20°C<br>Recoating intervals related to later conditions of exposure |
| Nozzle orifice | 0.023"-0.027" |
| Nozzle pressure | 250 bar/3600 psi<br>Airless spray is indicative and subject to adjustment |
| Application condition | Apply only on a dry and clean surface with a temperature at least 3°c above the dew point<br>To avoid condensation Environment Temperature should be 10 °C min and 40°C max and Relative humidity: 80% maximum. |

## SURFACE PREPARATION

**1-Steel**

Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil, and all other contaminants that could interfere with the adhesion of the coating.
Steel Immersion: SSPC-SP10
Profile: 3.0-4.0 mils (75-100 microns)
Non-Immersion: SSPC-SP6
Profile: 2.0-3.0 mils (50-75 microns)

**2-Concrete**

Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces by ASTM D4258, Surface Cleaning of Concrete, and ASTM D4259 Abrading Concrete.

**3-Galvanized Steel**

Abrasive blast to achieve a minimum of 2-3 mils (50-75 microns) profile.

## SAFETY PRECAUTIONS

Detail information is given on the Material Safety Data Sheet (MSDS). Avoid inhalation of spray mist or vapor. Avoid skin and eye contact. Paint contacted with skin should be immediately removed with water and/or suitable cleanser. Eyes should be flushed with water and seek immediate medical attention. Since this product contains flammable solvents, keep away from sparks and open flames. The application and handling of this product should be in compliance with relevant national regulations.

## STORAGE

Store in dry, cool condition and away from sources of heat and ignition. Containers must be kept tightly closed. Store conditions shall be in accordance with national regulations.

## SHELF LIFE

18 months from date of production.