

APCOGUARD SF 155

Epoxy tank lining

PRODUCT DESCRIPTION

Two component solvent free, high build, heavy duty epoxy coating

FEATURES AND RECOMMENDED USE

- Designed as an epoxy tank lining & internal pipeline coating for storage and transportation of potable water
- Self priming; excellent adhesion on blasted steel with good mechanical properties
- Zero VOC, eliminates explosion risks and fire hazards when applied in confined area
- Certified to the requirements of BS 6920 : 2000 for use in contact with potable water intended for human consumption upto 60°C
- Certified to AWWA C 210-07 requirements as internal & external lining for steel water pipelines by COT bv , The Netherlands
- Certified to overall migration standard as per 21 CFR 175-300 of US FDA by CFTRI India for potable water
- Coating also provides good resistance to White oils and variety of petroleum

TECHNICAL DATA

Colour	Grey & Off White (Self Standard)
Gloss	Glossy
Volume solids	Approx. 100 %
Recommended DFT / Coat	250– 450 microns
Theoretical Coverage Capacity	4.0 sq.mtr/ ltr @ 250microns 2.2 sq.mtr/ ltr @ 450microns
Drying time at 30°C	Touch dry : 6 hours Hard dry : 8 hours Full cure : 7 days
Over coating interval at 30°C	Min. : 8 hours Max. : 4 days, provided surface is dry and clean from all contamination
Method of Application	Airless spray

The data given is for guideline only. The physical values are subject to normal manufacturing tolerances, colour and testing variances
The volume solids indicated are as per ASTM D 2697 air drying method.
The actual drying time/ overcoat interval may be shorter or longer, depending on film thickness, ventilation, humidity, temperature etc.
The information provided above is at 30°C and 65% relative humidity.

DIRECTIONS FOR USE

Surface Preparation

General

- Surfaces must be dry, clean and free from contaminants
- Ensure removal of dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. Oil and grease should be removed as per SSPC-SP1 solvent cleaning.
- Surface should be checked and treated in accordance with ISO 8504 prior to priming

Blast Cleaning

- Steel, abrasive blast clean to min. Sa 2 1/2 (ISO 8501-1: 200) or SSPC –SP6. In case oxidation has occurred between blasting and application of Apcoguard SF 155, the surface should be reblasted. A blasting profile of (Rz) 40-70 microns is recommended

Application Conditions

- Substrate temperature should be at least 3°C above dew point but not above 50° C.
- Relative humidity should be around 60-70%
- Good ventilation is required in confined areas to ensure proper curing

Mixing

- Apcoguard SF 155 is supplied in two packs. Stir the base and hardener separately. If settling is observed in the base or hardener, loosen the settled material with the help of hand stirrer followed by power driven stirrer (at lower RPM) for quick homogenous mixing.
- Mix hardener gradually into the base under continuous stirring as per the mixing ratio.
- Once the unit has been mixed, it should be consumed within the working pot life. In case of part mixing (which should be avoided), close the lids of containers tightly to avoid contact with atmospheric moisture.
- Thinner should be added after mixing the components and post the induction time. Addition of too much thinner will lead to reduced sag resistance

Mixing Ratio (by volume)	Base : Hardener 4 : 1
Induction time	Nil
Pot life at 30°C	1 hour

Application

Airless Spray	
Recommended thinner	T 141
Volume of thinner	0 – 10%
Nozzle orifice	0.53 - 0.74 mm (25-35 Thou)
Nozzle pressure	20 - 24 MPa (= approx. 200 - 240 atm; 2800 - 3400 p.s.i)
Recommended cleaner	T 141

NOTE : Brush/Roller- Suggested only for small areas or stripe coating.

Cleaning

- Do not allow the product to remain in hoses, gun or spray equipment. Clean all equipments immediately after use with Thinner T 141. It is recommended to periodically flush out spray equipment during the course of the working day. The frequency of cleaning will depend on amount sprayed, temperature and time gap.
- All surplus material and empty containers should be disposed off in accordance with appropriate regional legislation.

Product Characteristics

- This is an 100 % volume solids product with zero VOC designed to reduce solvent emission and eliminate the risk of solvent retention ensuring safe & clean drinking water during storage period. The product is suitable for application using airless spray direct over Sa 2½ blasted steel. In case of concrete tanks suitable epoxy primer to be applied prior application of Apcoguard SF 155.
- In confined tanks/areas, relative humidity should be controlled using dehumidification equipment. Where such equipment is not available, a single coat application technique should be employed to avoid intercoat adhesion problem.
- After last coat application ensure paint film is free from pinholes and other defects if any. Let the paint to be cured as specified before placing the finished lining into service.
- As common with all epoxies Apcofuard SF 155 will chalk and discolour on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

For requirement of durable cosmetic finish with good gloss and colour retention, overcoat with recommended durable topcoats.

Overcoating

ApcoGuard SF 155 should only be topcoated with itself and should never be overcoated with another product for internal tank painting usage. In case of external pipeline / tank painting, suitable Polyurethane paint can be used as durable top coat.

PACK SIZE	5 ltrs (Base: 4 Ltrs & Hardener: 1 Ltr)
STORAGE	Shelf Life: Atleast 12 months @ 300C for original unopened pack, subject to inspection thereafter. Store in a cool, dry place and in accordance with local regulations
REGULATORY INFORMATION	Flash point: Base : Not less than 24°C Hardener : Not less than 24° C VOC: 0 gm/ ltras per USA-EPA Method 24 Product Weight: approx. 1.6 – 1.8kg/ ltr (depending on shades)

Safety Information

- As a general safety measure, inhalation of solvent vapours or paint mist and contact of liquid paint with skin & eyes, should be avoided. Forced ventilation should be provided when applying paint in confined spaces or stagnant air. Even when ventilation is provided, respiratory, skin and eye protection are always recommended when spraying paint.
- Please refer our Material Safety Data Sheet prior to using the product.

Disclaimer: To the best of our knowledge the information provided herein are true and accurate at the date of issuance. Since we have no control over the quality or condition of the substrate or the various factors affecting the use and application of the product, we do not accept any responsibility or liability arising out of use of the product. The company reserves the right to modify data contained herein without prior notice. Any change in data would normally be followed by issue of a new data-sheet. The user should check with the nearest sales office of the company and confirm the validity of the information, prior to using the product.

'APCOGUARD' is a Trademark of Asian Paints Ltd. | Licensed user: Asian Paints PPG Pvt. Limited.

Head Office: Asian Paints PPG Private Limited, Plot No-5, Gaiwadi Industrial Estate, Near Religare Building, S.V. Road, Goregaon (W), Mumbai 400 062. **Tel No:** 022 6218 2700, **Email:** customercare.apppg@asianpaintsppg.com, **Website:** www.asianpaintsppg.com