

APCOGUARD SF 156



PRODUCT DESCRIPTION

Two components, 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
- Low VOC, eliminates explosion risks and fire hazards when applied in confined area
- Coating also provides good resistance to range of products including crude oil, white oils, and variety of petroleum based solvents and potable water
- Certified to NSF,UK and WRAS as per BS 6920:2014 for use in contact with water intended for human consumption up to 65°C & cold water
- Certified to AWWA C 210-15 requirements for internal & external lining for steel water pipelines
- Certified to overall migration standards as per 21 CFR 175-300 of US FDA for potable water by CFTRI India
- Good aged recoatability; Easy application by brush and spray

TECHNICAL DATA

Colour	Grey/Red oxide/Off-White/Blue
Gloss	Glossy
Volume Solids	Approx. 100 %
Recommended DFT / Coat	400 – 800 µm
Theoretical Coverage Capacity	2.5 sq. mtr/ ltr @ 400 µm 1.25 sq. mtr/ ltr @ 800 µm
Drying time at 30°C	Touch dry : 2 hours Dry to Handle : 4 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 2.5 as per Swedish specification. In case oxidation has occurred between blasting and application of Apcoguard SF 156, the surface should be re-blasted. A blasting profile of (Rz) 40-70 µm is recommended.

Application Conditions

- Substrate temperature should be at least 3°C above dew point but not above 50°C
- Relative humidity should be below 65%. Can be applied at high humidity in factory controlled conditions
- Good ventilation is required in confined areas to ensure proper curing

Instruction for use

- Apcoguard SF 156 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 3 : 1
Induction Time	Nil
Pot Life at 30°C	30 min @30°C 20 min @45°C (Max)

Application

Airless Spray	
Recommended thinner	: Not Recommended- Normally no thinner is required.
Volume of thinner	: 0 – 10% *
Nozzle orifice	: 0.78 - 0.86 mm (31-34 Thou)
Nozzle pressure	: 20 - 24 MPa (approx. 200 - 240 atm; 2800 - 3400 p.s.i)

Note : 1) Brush/Roller- Suggested only for small areas or stripe coating.
2) Depending on recommended thickness & application condition *

Cleaning

- Do not allow the product to remain in hoses, gun or spray equipment. Clean all equipment's 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 of in accordance with appropriate regional legislation

Product Characteristics

- This is a 100 % volume solids product with low 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 2.5 blasted steel. In case of concrete tanks suitable epoxy primer to be applied prior application of Apcoguard SF 156

- 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 application ensures 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 ApcoGuard SF 156 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
- The application by twin feed gun is recommended as pot life is very short. For smaller job and at low temperature, application with regular airless spray is possible
- The Premature exposure to ponding water will cause a colour change
- Rem Application of stripe coat on welded/edges/crevice's area to be done before full coat application
- Consult Asian Paints PPG technical representative for any technical query & suitability of storage

Over-coating

- ApcoGuard SF 156 should only be topcoated with itself and should never be over-coated 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	200 L (Base : 150 L; Hardener : 50 L) 20 L (Base : 15 L ; Hardener : 5 L)
STORAGE	Shelf Life: At least 12 months at 30°C for original unopened pack, subject to inspection thereafter Store in a cool, dry place and in accordance with local regulation
REGULATORY INFORMATION	Flash point: Base : Not less than 24°C Hardener : Not less than 24°C VOC: Approx. 25 gm/ ltr as per USA-EPA Method 24 Product Weight: 1.50 ± 0.10 kg/ 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.

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