

PRODUCT DESCRIPTION

APCOSHIELD FBV series thermosetting Fusion Bonded Epoxy powder coatings provide corrosion protection of valves & fittings. Product provides excellent adhesion to substrate with desired protection. Product is made with superior properties of chemical resistance, higher mechanical impact strength, high flexibility for all size of valves and fittings.

The Product Data Sheet is standard for the APCOSHIELD FBV range products and specific shades within the range can vary. Datasheets for individual products are available.

PHYSICAL PROPERTIES

Appearance	Free flow powder
Specific Gravity	1.2 - 1.6
Shelf life	Six months from the date of manufacturing in dry cool condition below 25°C & 50% RH

FILM PERFORMANCE

Test description	Test reference	Specification
Finish	Visual	As per Asian Paints PPG standard
Gloss at 60° head	ASTM D 523	Smooth >70 GU
Adhesion	ASTM D 3359	GT-0 (Passes 5B)
Impact resistance	ASTM G 14	50 kg-cm
Pencil Hardness	ASTM D 3363	H-2H
Abrasion resistance	ASTM D 4060	<40mg loss CS-10 wheel 1000 gm load 1000 cycles
Salt Spray Resistance	ASTM B 117	<3 mm after 1000 Hrs. at 35°C
Cathodic disbondment	CSA Z245 -2	<15 mm radius after 28 days at RT
Hot water immersion	28 days at 35°C	No colour change and rating ≤2

Test conditions: All tests are carried out under lab conditions on 6 mm Grit blast to SA 2½ CRCA panel preheat at 240-250°C followed by application of APCOSHIELD FBV Fusion Bonded Epoxy Coatings at DFT 250-400 microns.

APPLICATION RECOMMENDATION

Recommended to follow Good Manufacturing Practices to achieve optimum results

Pre-treatment	Remove any oil, grease, dust or graphite with suitable solvent, and any salt deposits with fresh water. Grit blast to SA 2½ with a surface roughness of 50-80 microns, cleaning blasted surface by air blast, brushing or suction. Grind out any defects and re-blast if necessary. Ensure powder coatings within 4 hours from blast. Preheat using furnace or induction heating as per curing recommendations
Application DFT	Min. 250 micron by dip & spray method.
Curing Schedule	Preheat – Object Temp at 190 to 220°C (metal temperature) Self-curing on 8 mm steel at above temperature

Thorough cleaning of the application & recovery system required between each change in powder to avoid contaminations & defects. Refer to test certificate of individual product for recommended application DFT and curing schedule.

SHELF LIFE AND STORAGE

Shelf life of six months from the date of manufacturing in dry cool condition below 25°C & 50% RH. The cartons should be stacked 1+4 high. Avoid exposure to direct sunlight, heat and humidity. Do not exceed 33°C. Partly used material must be tightly closed after each removal and stored carefully inside the carton to avoid contamination & absorption of moisture.

All material be used in FIFO order (first in first out). Materials that exceed the shelf life should be revalidated prior to use.

SAFETY INFORMATION

Please refer Material Safety Data Sheet prior to using the product

The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current regulations. Use of the product for any purpose other than that specifically recommended in the product data sheet without first obtaining written confirmation from Asian Paints PPG Pvt. Ltd. as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. Always read the MSDS and the Technical Data Sheet for this product. We do not control the quality or the condition of the substrate or the many factors affecting the use and application of the product.

Unless agreed in writing, Asian Paints PPG Pvt. Ltd. do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. The information contained in this data sheet is subject to modification from time to time in the light of experience and continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

APCOSHIELD and HAWCOPLAST are trademarks of Asian Paints Ltd. used under license by Asian Paints PPG Pvt Ltd.

Asian Paints PPG Pvt. Ltd.

Corp. Office: Plot No. 5, Gaiwadi Industrial Estate, S. V. Road, Goregaon (W), Mumbai 400062

Phone: +91-22-6218 2700 Customer Care no: +91-22-6218 2649 e-mail: customercare.apppg@asianpaintsppg.com

Website: www.asianpaintsppg.com CIN: U24110MH2011PTC220557