

PRODUCT DESCRIPTION

APCOSHIELD FBP series thermosetting Fusion Bonded Epoxy powder coatings is designed for use in multi-layer pipe systems. Product provides excellent adhesion to substrate with desired protection. Product is made with superior properties of chemical resistance, higher mechanical properties and corrosion resistance.

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

PHYSICAL PROPERTIES

Appearance	Free flow powder
Specific Gravity	1.3 - 1.6
Gel time	45-55 sec at 205°C (Type 1)
Modified ISO 8130-6	25-35 sec at 205°C (Type 2)
CSA Z245.20-06	15-25 sec at 205°C (Type 3)
	8-15 sec at 205°C (Type 4)
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° gloss head	DIN 67530	70-90 GU
Impact resistance	CSA Z245.20	1.5 J
Flexibility	CSA Z245.20-06 12.11	Pass 3°, -30° C
Abrasion (Taber)	ASTM D 4060	<100 mg loss CS-10-wheel 1000 gm load 1000 cycles
Cathodic Disbondment	CSA Z245.20-2 12.8	1-3 mm r after 24 hrs. at 65°C, 3.5 V 2 - 4 mm r after 28 days at 23°C, 1.5 V 10 - 11 mm r after 28 days at 65°C, 1.5 V 4 - 5 mm r after 48 hrs. at 65°C, 3.5 V
Hot Water Resistance	CSA-Z245.20-12.14	1 rating, 24 hours at 95°C 1 rating, 48 hours at 75°C

Test conditions: All tests are carried out under lab conditions on steel panel cleaned to Near-White Blast followed by application of APCOSHIELD FBP Fusion Bonded Epoxy Pipeline Coatings at DFT 200-400 microns.

APPLICATION RECOMMENDATION

Recommended to follow Good Manufacturing Practices to achieve optimum results		
Substrate	Mild steel	
Pre-treatment	Near-White Blast as defined by SSPC SP 10, Nace No. 2, Swedish Sa 2½ or BS Second Quality	
Required surface roughness	50-100 µm	
Application method	Electrostatic powder spray using a negative charge of 40-120 kV	
Application DFT	200-400 micron	
Curing Schedule CSA Z245.20-10	232 ± 2°C for 90 – 120 sec.	

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.

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