

APCOSHIELD HIT

PC37

POWDER COATINGS

Product Data Sheet



PRODUCT DESCRIPTION

APCOSHIELD HIT thermosetting powder coatings provide a combination of good mechanical and corrosion resistance properties.

APCOSHIELD HIT range products are specially designed for coating on internal tank of water geyser, heater, solar heater, storage heater.

The Product Data Sheet is standard for the APCOSHIELD HIT 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 30°C & 60% RH

FILM PERFORMANCE

Test description	Test reference	Specification
Finish	Visual	As per Asian Paints PPG standard
Gloss at 60° head	ASTM D 523	Smooth Semi-gloss 50-80 GU
Adhesion	ASTM D 3359	GT-0 (Passes 5B)
Impact resistance	ASTM D 2794	20 kg-cm
Scratch hardness	ASTM D 2197	1 KG
Pencil Hardness	ASTM D 3363	2H
Salt Spray Resistance	ASTM B 117	1000 Hrs. pass 3mm Scribe Creep
Humidity Resistance	ASTM D 2247	1000 Hrs. No blisters
MEK Rub Test	ASTM D 4752	50 Double rubs
Boiling Water resistance	Asian Paints PPG	Shot/Sand blasted steel – 200 Hrs. Shot/Sand Blasted with Wash Primer – 1300 hrs. Zn Phosphate Steel – 2500 hrs.

Test conditions: All tests are carried under laboratory conditions on 0.8mm standard Tri-cationic Phosphated CRCA test panels with coating weight of 2-3.5 gm/sq.mt followed by powder coating at DFT 80-100µ and cured at 200°C object temp. for 20 min.

APPLICATION RECOMMENDATION

Pre-treatment	All substrates are to be cleaned & should be free from grease, oil & dust. A suitable chromate conversion coating is recommended for Aluminum substrate. Passivated Tri-cationic phosphating process with coating weight of 2-3.5 g/m ² or nano pre-treatment is recommended for steel and GPSP substrate.
Application type	Corona Electrostatic spray
Application voltage	60-90 KV and can be customized basis the application line
Earthing	Proper & good
Compress air	Free from moisture, oil, dust & other impurities through flat jet spray nozzle
Application DFT	250-300 micron (For Boiling Water test) 80-100 micron (For other tests)
Curing Schedule	200°C EMT for 20 min
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 & 60% RH. The cartons should be stacked 1+4 high. Avoid exposure to direct sunlight, heat and high humidity. 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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