

APCOSHIELD INSULOX-B

PC32

POWDER COATINGS

Product Data Sheet



PRODUCT DESCRIPTION

APCOSHIELD INSULOX-B series thermosetting special Epoxy powder coatings for low and medium voltage Bus Bar application. APCOSHIELD INSULOX-B series products can be custom designed to meet customer specifications.

The coating exhibits:

- Excellent adhesion to Copper and aluminium resulting in superior mechanical properties.
- Superior edge coverage and dielectric strength.
- High film build-up in single coat.
- Excellent cut-through resistance.
- Low moisture absorbing materials for stable inductance values.
- High service temperatures.

The Product Data Sheet is standard for the APCOSHIELD INSULOX-B range products and specific shades within the range can vary. Datasheets for individual products are available. Not suitable for exposure to direct sunlight.

PHYSICAL PROPERTIES

Appearance	Free flow powder
Specific Gravity	1.4 - 1.7
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 Matt 0-30 GU Smooth Semi-gloss 30-80 GU Smooth Glossy >80 GU
Adhesion	ASTM D 3359	GT-0 (Passes 5B)
Impact resistance	ASTM D 2794	40 kg-cm
Scratch hardness	ASTM D 2197	2 KG
Pencil Hardness	ASTM D 3363	H
Die Electric Strength	ASTM D 149	>35 KV/ mm
Break Down Voltage	ASTM D 149	>16 KV
Insulation Class	IEC 60085	Class A
UL Flammability Rating	-	UL94 V-0
Tg2 (°C)	-	>105
Salt Spray Resistance	ASTM B 117	1000 Hrs. pass 3mm Scribe Creep
Humidity Resistance	ASTM D 2247	1000 Hrs. No blisters

Test conditions: All tests are carried under laboratory conditions on 2 mm standard Chromated Aluminium test panels followed by powder coating at DFT 300-400 microns cured at 200°C object temp. for 10 min.

APPLICATION RECOMMENDATION

Pre-treatment	Suitable cleaning method to remove surface contaminates. The substrates should be free from grease, oil & dust
Application system	Fluidized Bed, Electrostatic Fluidized Bed, Electrostatic Corona Gun, Tribo Gun
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	>300μ
Curing Schedule	200°C object temp. for 10 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 30°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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