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XIOM 530

Description:

Multiplex composite powder comprising modified polyolefin resins and silicon carbide. Specially designed to form a thermal sprayed anti slip coating. The coatings are essentially silicon carbide particles (180 microns) bonded to a polyolefin matrix that bonds to the substrate. All purpose anti slip coating for both exterior and interior applications. Available as gray coating only.

Application Data:

Surface preparation

Refer to the Coatings Manual for proper substrate preparation. Each substrate material, i.e. steel, aluminum, masonry, fiberglass, wood, tile, plastics etc. requires special considerations before spraying. Typically, prior to spraying all substrates should be cleaned and degreased and roughened. Liquid primers are not required. But a bond coat of XT707 can be used.

Thermal spraying

Refer to XIOM's Thermal Spray Manual for detailed processing guidelines. Before spraying, the surface to be coated should be heated to approximately 180˚F. The spray torch or other heating device can be used. Begin spray immediately; apply coating in one pass. A second pass is wasteful as new coating will bounce off surface.

Technical Specifications:

Typical powder information	Coarse powder specially sized for thermal spray
Coverage (100% efficiency)	75 to 85 sq-ft/ lb. / mil
Particle size	90% less than 60 mesh
VOC content	None
Thickness (recommended minimum)	One pass leaves 7 to 10 mils. Do not apply two passes as second coat will not bond to silicon carbide.
Storage stability	Unlimited shelf life if stored < 90^0 F

Coating Performance Properties:

Performance Properties	Testing Method	Results
Specific gravity	Calculated	2.30 to 2.40 g/cc
Adhesion		Outstanding
Hardness (Shore D)		N/ A
Impact resistance (Direct)	-	Very good
Flexibility	-	Outstanding
UV resistance	-	Excellent
Tensile, PSI (Instron) yield	ASTM D 638	
Salt spray resistance		Excellent
Humidity resistance		Excellent
Melt point		195 F (92C)
Flammability	FMVSS 302 (09/98)	DNI. Does not support combustion during or after ignition.

Material Spray Parameters:

Material	530	Use Oval nozzle
Spray Parameters		
	PSI	Flow
Main Air	75-80	-
Vibrator Air	12.5	-
Fluidizing Air	5	45
Material Feed Rate	7.5	20
Material Delivery	30	55
Gun Air	40-45	200+
Oxygen	55	25
Propane	50	8

Comments:

The multiplex technology in Xiom 530 is unique to the powder coating industry. Specially formulated composite powder designed for thermal spraying. Allows the co-deposition of both silicon carbide and polyolefin polymer in one step with one powder.

Coating Characteristics:

- Rough coatings with excellent anti slip properties.
- Outstanding flexibility between freezing and 175F (80C).
- Low moisture absorption and salt spray resistance.
- Tough and adherent coatings.
- High UV stability promotes better outdoor weathering properties.
- High impact, wear and abrasion resistance.

Some recommended anti slip applications include:

- All walkways
- Boat decks
- Factory cement floors
- Metal stairs and strips

Health and Safety:

XIOM 530 is supplied as powder. While there are no known health hazards associated with this powder normal handling precautions for dealing with fine organic powders should be taken, i.e., excessive dust generation and inhaling of the powder should be avoided. Always wear a proper dust mask and adjust facilities for removing excess dust from the working area during handling.

Before thermal spraying, refer to the MSDS and Thermal Spray Manual for proper precautions to avoid exposure to combustion products.

It should be appreciated that the information given here is, to the best of our knowledge, true and accurate. However, since conditions under which our materials and equipment may be used are beyond our control, recommendations are made without warranty or guarantee.

Xiom Corp. 78 Lamar Street, West Babylon, New York, 11704 (631) 643-4400 www.xiom-corp.com
For ordering information, please contact your regional distributor.