Halar® 6514

ethylene chlorotrifluoroethylene copolymer

Halar® 6514 is a black, semi-crystalline melt processable fluorinated primer. It is designed to be applied directly to substrates by electrostatic or fluidized bed techniques. In particular Halar® 6514 is recommended for use as a primer in protection and anti-corrosion applications.

Halar® 6514 provides optimum and rapid bonding and can be used to maximize topcoat adhesion performance. It also exhibits both outstanding permeation and flame resistance, very good thermal properties and very good chemical resistance.

Main features of Halar® 6514 include:

- Black color
- Optimum and rapid adhesion
- Outstanding permeation resistance
- Optimum flame resistance
- Very good thermal properties
- Very good chemical resistance

General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North America
Features	• Bondability • Chemical Resistant • Corrosion Resistant	• Good Adhesion • Good Thermal Stability • Semi Crystalline
Uses	• Bonding	• Coating Applications
Appearance	• Black	
Forms	• Powder	
Processing Method	• Coating	

Physical	Typical Value	Unit	Test method
Density	1.68	g/cm³	ASTM D3275
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	12	g/10 min	ASTM D3275
Average Particle Size	85	µm	ASTM D1921

Thermal	Typical Value	Unit	Test method
Melting Temperature	225	°C	ASTM D3275

Additional Information

Processing

- Halar® 6514 is intended as a primer material to apply directly to substrates. It can be processed using either conventional electrostatic powder coating or fluidized bed equipment.
- In the case of electrostatic Spray Deposition Powder coating technique the procedure involves substrate preparation, powder coating, baking and cooling. Several passes maybe required to obtain the desired Halar load and ensure pin-hole free coatings. Alternatively using fluidized bed equipment preheated items can be coated by dipping directly into the fluidized powder followed by baking. The dipping and baking operation can be repeated to achieve multiple coats and build up the desired coating thickness.
- Halar® 6514 can be used neat and without any further formulation. For both techniques, substrate preparation, preheating, coating and baking parameters must all be well controlled to achieve defect free coated items and optimum adhesion.

Storage and Handling

- Halar® melt processable fluropolymer resins can be stored without shelf life issues when kept in a clean and dry area at ambient temperatures. Opened containers should be tightly resealed to prevent any contamination.

Safety and Toxicology

- Before using Halar® melt processable fluropolymer resins consult the product Material Safety Data Sheet and follow all label directions an handling precautions.
- As with all fluoropolymer materials, handling and processing should only be carried out in well ventilated areas. Vapour extractor units should be installed above processing equipment. Fumes must not be inhaled and eye and skin contact ought to be avoided. In case of skin contact wash with soap and water. In case of eye contact flush with water immediately and seek medical help. Do not smoke in areas contaminated with powder, vapour or fumes.
- See Material Safety Data Sheet for detailed advice on waste disposal methods.

Packaging

- Halar® 6514 is packaged in 25kg non returnable drums. Each drum has two bags liner made of polyethylene resin.

Notes

Typical properties: these are not to be construed as specifications.

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