

Ceilcote 242HB Flakeline

High build vinyl ester lining/coating

Ceilcote® 242HB Flakeline is a glass flake filled vinyl ester lining/coating designed for the protection of steel and concrete substrates. It can be applied by airless spray in a single coat up to 54 mils (1350 microns) DFT with a typical design range of 30-50 mils (750-1250 microns) DFT.

Ceilcote 242HB Flakeline is used in lining applications for tanks and process vessels, flue gas ducts, concrete trenches and pits, as well as in secondary containment and process floor coating services.

- Excellent chemical resistance
- Excellent permeation resistance
- Dry heat resistance up to 350°F (177°C)
- Direct to metal application capability
- Single coat eliminates intercoat adhesion issues
- High film build reduces application steps
- Lower applied costs compared to multi-coat systems
- Quick return to service



Ceilcote 242HB Flakeline is designed with excellent application characteristics, high film build and resistance to a wide range of chemical environments

Industry applications

Ceilcote 242HB Flakeline is typically used for the protection of plant assets against a wide range of chemical reagents including acids, alkali solutions and many aliphatic solvents in the following industries:

Chemical Processing	Oil and Gas
Power Generation	Mining and Minerals
Pulp and Paper	Water and Wastewater

Outstanding productivity

Ceilcote 242HB Flakeline is designed for spray application at up to 54 mils (1350 microns) DFT in a single coat making it an ideal choice where productivity is a key driver. It can be used as a single coat stand-alone lining as well as a basecoat or topcoat in a number of Ceilcote lining system designs.



Coating cross-section showing flake orientation

Performance Testing

TEST TYPE	TEST METHOD	SPECIFICATION DETAILS	TYPICAL RESULTS
Water Vapor Permeability	ASTM D1653 - "Standard Test method for Water Vapor Transmission of Organic Coating Films"	1 x 40 mils (1000µm) DFT, applied directly to SA 2-1/2 (SSPC SP 10) blasted steel	Average water vapor transmission rate of 0.00035 perm inches at a temperature of 140°F (60°C)
Impact	ASTM D2794 - "Resistance to the Effects of Rapid Deformation (Impact)"	1 x 40 mils (1000µm) DFT, applied directly to SA 2-1/2 (SSPC SP 10) blasted steel	Direct Impact; ≥ 18 Joules (160 in-lbs)
Elevated Temperature Test	ASTM D5499 Method A - "Standard Test Methods for Heat Resistance of Polymer Linings for Flue Gas Desulfurization"	1 x 40 mils (1000µm) DFT, applied directly to SA 2-1/2 (SSPC SP 10) blasted steel	No film defects at 350°F (177°C)
Tensile Strength	ASTM D638 - "Standard Test Method for Tensile Properties for Plastics"	1 x 40 mils (1000µm) DFT	4645 psi
Tensile Elongation	ASTM D638 - "Standard Test Method for Tensile Properties for Plastics"	1 x 40 mils (1000µm) DFT	2.44%

www.international-pc.com
pcmarketing.americas@akzonobel.com

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