

Ceilcote 282HB Flakeline

High build, high heat resistant vinyl ester lining/coating

Ceilcote® 282HB Flakeline is a glass flake filled novolac vinyl ester lining designed for the protection of steel 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 per coat.

Ceilcote 282HB Flakeline is particularly suitable for elevated temperature FGD related lining applications, including flue gas ducts, stack flues, dry scrubbers, bag houses, and hot electrostatic precipitators.

- Excellent chemical resistance
- Excellent permeation resistance
- Dry heat resistance up to 400°F (204°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 282HB Flakeline is designed with excellent application characteristics, high film build and resistance to a wide range of chemical environments

Industry applications

Ceilcote 282HB Flakeline is typically used for the protective lining of steel gas cleaning and flue gas handling systems including Power FGD applications and where resistance to acids and/or organic solvents is required, in the following industries:

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



Coating cross-section showing flake orientation

Outstanding productivity

Ceilcote 282HB 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.

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, unbonded free film	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 3 (SSPC SP 5) 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 3 (SSPC SP 5) blasted steel	No film defects at 400°F (204°C)
Tensile Strength	ASTM D638 - "Standard Test Method for Tensile Properties for Plastics"	1 x 40 mils (1000µm) DFT	4500 psi
Tensile Elongation	ASTM D638 - "Standard Test Method for Tensile Properties for Plastics"	1 x 40 mils (1000µm) DFT	2%

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