

ChemLINE® LE

A protective lining for superior corrosion and high temperature resistance with exceptional flexibility and toughness.



Description

ChemLine® LE coating is specially formulated polymer resin for handling the high temperature and abrasion requirements of the power industry. ChemLine® LE is a two-component force cure system that offers unique characteristics. ChemLine® LE is a cross-linked organic-inorganic multifunctional polymer coating that is cured through homopolymerization. This dense crosslinked polymer exhibits high flexibility and toughness, having no detrimental hydroxyl or ester groups. Due to ChemLine® LE's temperature resistance of 500°F (260°C), it provides superior resistance to:

- ▶ Acids, alkalis, solvents, oxidizing agents
- ▶ Good wear and abrasion resistance
- ▶ Impact resistance
- ▶ Thermal cycling -40°F (-40°C) to +500°F (+260°C)

Industry Applications

- ▶ Stacks
- ▶ Chimneys
- ▶ Ducts
- ▶ Flue gas desulfurization scrubbers
- ▶ Chemical scrubbers
- ▶ Pre-scrubbers
- ▶ Spray towers
- ▶ Fans



Application Highlights

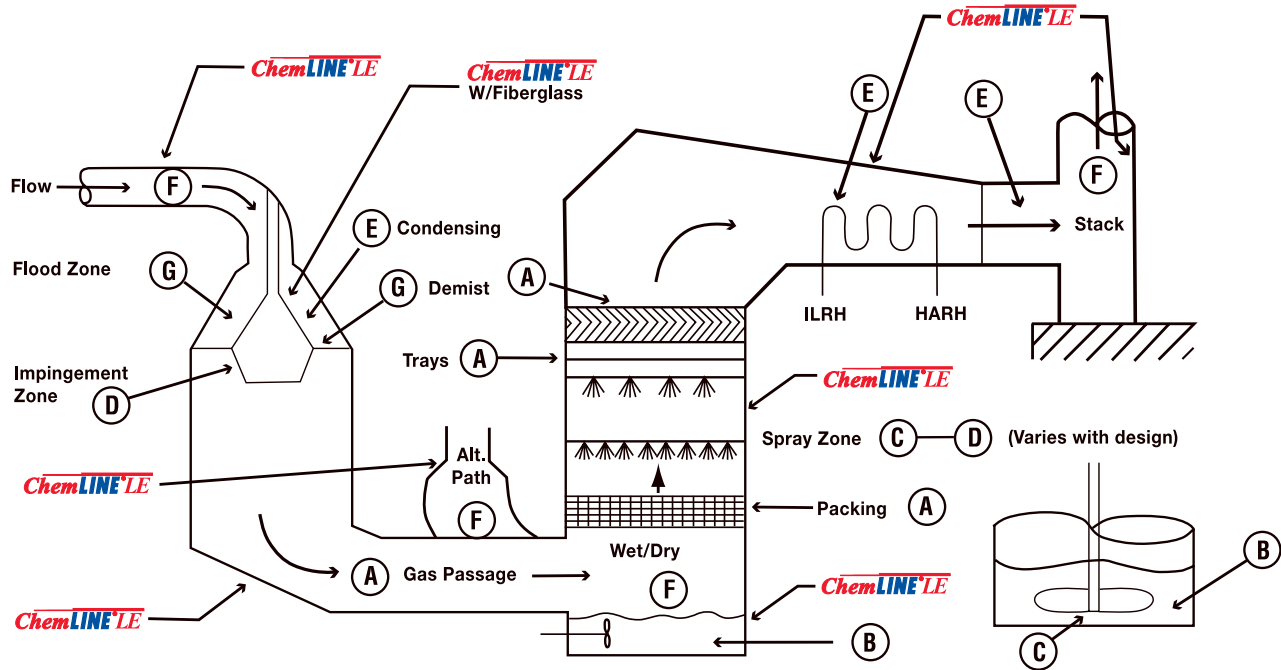
- ▶ Excellent resistance to hot flue gas condensate
- ▶ Resists fly ash abrasion
- ▶ Low coefficient of thermal expansion
- ▶ Smooth, low surface energy reduces fly ash buildup in ducts and stacks
- ▶ Applied to pitted corroded steel
- ▶ Very low VOC - 99 grams/L (0.80 lbs. per gallon)
- ▶ Outstanding flexibility
- ▶ Resists hydroblasting
- ▶ Field repairable
- ▶ Coefficient of thermal expansion comparable to stainless steel
- ▶ Dry heat resistance up to 500°F (260°C)

Typical Properties

- ▶ Stock Colors _____ Gray, Red
- ▶ V.O.C. Level/Gal. _____ 99 grams/L (0.80 lbs./gal.)
- ▶ Lead Content _____ Zero
- ▶ Chromate Content _____ Zero
- ▶ Pot Life _____ 120 minutes @ 75°F (24°C)
- ▶ Viscosity Reduction _____ Reduce with Toluene or Xylene
- ▶ Solids by Volume _____ 90.0%
- ▶ Recommended Film Thickness (dry) mils average
_____ Steel: 16 mils (400 microns)
_____ Concrete: 24 mils (600 microns)
- ▶ Shelf Life _____ 12 months

For most current application and technical information, contact Advanced Polymer Coatings customer service.

Typical FGD Schematic (non-denominational) Showing Various Lining Zones for ChemLINE® LE



Explanation of Above Codes Used to Define Living Environment

Code	(1) Corrosion	(2) Erosion	(3) Temperature	Recommendation
A	Mild Corrosive (Vapor)	Mildly Abrasive	High	ChemLine® LE
B	Moderate (Immersion)	Mild	Mild	ChemLine® LE
C	Moderate	Moderate	Mild	ChemLine® LE
D	Moderate	Severe	Mild	ChemLine® LE
E	Severe	Mild	Moderate	ChemLine® LE
F	Severe	Mild	Severe	ChemLine® LE
G	Severe	Severe	Severe	ChemLine® LE

- Key**
- 1) Corrosion - Mild 30% to 80% Sulfuric Acid (Severe)
 - 2) Erosion - High Energy Fly Ash Particles
 - 3) Temperature - Mild 200°F (93°C) to 350°F (177°C) (Severe)

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