

# Plasite 4550 S Reinforced Epoxy-Novolac

## *For FGD and other Severe Service*

### Plasite 4550 S

#### Reinforced Epoxy Novolac

#### Description

PLASITE 4550 S is a 100% solids, flake-reinforced, premium novolac epoxy coating designed for steel and concrete substrates in severe service conditions. It has excellent abrasion and impact resistance and exhibits extreme versatility to a wide variety of aggressive chemicals. It is applied by plural component or single component spray equipment, for a total thickness of 20-60 mils (500-1500 microns) in a single coat application for a variety of applications. Plasite 4550 S is well suited to withstand some of industry's most aggressive chemicals typically found in flue gas desulfurization (FGD) system exposures.

#### Specification Data

**Solids by Volume:** ..... 100%  
**VOC:** ..... 0.00 g/l  
**Recommended DFT:** ..... single coat at 35-60 mils  
**Minimum Cure Temperature:** ..... 50°F  
**Bond Strength:** ..... 1700 psi  
**Tensile Strength:** ..... 7500 psi (ASTM D638)  
**Flexural Strength:** ..... 10,800 psi (ASTM D790)  
**Flexural Modulus of Elasticity:** .....  $5.9 \times 10^6$  psi (ASTM D790)  
**Hardness:** ..... 75 (ASTM D2240 Shore D)  
**Abrasion Resistance:** Less than 30 mg loss per 1000 cycles using silicon carbide filler package); ASTM D4060 (1000 gm load, CS-17 wheel)  
**Pot Life @ 75°F:** ..... 45 to 60 min  
**Shelf Life:** ..... 6 months @75°F  
**Steel Surface Preparation:** ..... SSPC-SP5 or SP10 depending on the service; with a 4-mil sharp angular profile  
**Colors:** ..... Light Grey, Tile Red, Off-White  
**Cure Times:** ..... Dry to touch: 12 hours @75°F  
..... Firm: 24 hours @75°F  
..... For Service: 5 days @75°F

#### Features

- Excellent resistance to chemical attack
- Excellent abrasion and impact resistance
- Solvent-free lining
- Superior bonding qualities
- High tensile and flexural strength
- Single-coat application

#### Uses

- Chemical storage tanks
- Limestone slurry tanks
- Chemical containment areas
- Chemical loading and unloading areas
- Wastewater clarifiers
- Oil or ethanol storage tanks

#### FGD Components

