

FGD process vessels and containment areas of coal-fired power plants demand sophisticated corrosion protection. For over 50 years, companies have relied on ErgonArmor products. Our lining systems resist acidic conditions and abrasion, providing the protection you need in these lining applications.

Coal handling equipment such as conveyors, silos, bunkers and the like require heavy duty protection against dilute acids, impact and constant abrasion. ErgonArmor's high wear machinable repair compounds are tailored to excel in this type of environment, offering long-term performance.

When initial cost considerations drive the corrosion resistant lining selection process, power utilities turn to ErgonArmor **PENNCOAT™**, **PENNTROWEL™** and **Novocoat Linings**, which incorporate flake fillers, mat reinforcement and state-of-the-art resin technology. These linings will find applications in other parts of the plant, including tank linings, neutralization basins and cooling tower basins.

ErgonArmor General Power Plant Systems Guide					
Area	Substrate	System Recommendations			
Coal Hoppers/Silos	Steel	Novocoat Ceramic Carbide 4910 resurfacer, 2 coats of Novocoat SP2000AR Abrasion Resistant Ceramic Coating			
Coal Silo	Concrete	SC1100 Concrete Primer, resurface with Novolite Repair Mortar, 2 coats of Novocoat SP2000AR Abrasion Resistant Ceramic Coating, resurface with EP3920 Machinable Grade or Novocoat Ceramic Carbide 4910			
Coal Slurry Tanks	Steel	2 coats of Novocoat SP2000AR Abrasion Resistant Ceramic Coating, repair defect with EP2920 Flexible Paste as needed, 2 coats			
Cooling Tower Basins	Steel	Novocoat SP2000AR Abrasion Resistant Ceramic Coating			
Coal Conveyors	Steel	R180 DTM Epoxy			
Water Intake Equipment - Immersion	Steel	Repair with EP3920 Machinable Grade, topcoat with SP2000W Series or Novocoat SP2000AR Abrasion Resistant Ceramic Coating			
Pennstocks - Interior	Steel	SP2000W Series or Novocoat SP2000AR Abrasion Resistant Ceramic Coating			
Tanks - Interior (Fuel or Water)	Steel	SP2000W Series			

<sup>\*</sup>Nothing included for FGDs

Tank Designation by Suspended Solids (%)	Lining System*	Resin Type**	Lining Description	Application Method	Target Thickness	Thickness Range
SUSPENDED SOLID	S: 0-15%					
Bottom & Shell Wall	1. PENNCOAT™ 321/340 Lining	VE	Glass Flake Filled Basecoat	Trowel Basecoat Spray Topcoat	60 mils	50 – 80 mils
			Mica Flake Filled Topcoat			
Bottom & Shell Wall	2. Novocoat SC3300 Series	NE	Novolac Epoxy Basecoat	Spray	40 mils	30 – 50 mils
			Novolac Epoxy Topcoat			
Baffles	1. PENNCOAT™ 321/340 Lining	VE	Glass Flake Filled Basecoat	Trowel Basecoat	60 mile	s 50 – 80 mils
			Mica Flake Filled Topcoat	Spray Topcoat	60 mils	
Baffles	2. Novocoat SC3300 Series	NE	Novolac Epoxy Basecoat	Spray	40 mils	30 – 50 mils
			Novolac Epoxy Topcoat			
Roof Underside	1. PENNCOAT™ 340 Lining	VE	Mica Flake Filled Basecoat	Spray	40 mils	30 – 50 mils
			Mica Flake Filled Topcoat			
Roof Underside		NE	Novolac Epoxy Basecoat	Spray	40 mils	30 – 50 mils
	2. Novocoat SC3300 Series		Novolac Epoxy Topcoat			
SUSPENDED SOLID	S: 15-30%					1
Bottom +3ft Shell Wall + Baffles	1. PENNTROWEL™ VE LF	VE	Silica/Alumina Filled	Trowel Basecoat	455 11	125 – 200 mils
			Fiberglass Reinforced	Trowel Topcoat	155 mils	
Shell Wall	1. PENNCOAT™ 321/340 Lining	VE	Glass Flake Filled Basecoat	Trowel Basecoat Spray Topcoat	60 mils	50 – 80 mils
			Mica Flake Filled Topcoat			
Roof Underside	4 DENINGO ATIM 2 40 L : :	VE	Mica Flake Filled Basecoat	Spray	40 mils	30 – 50 mils
	1. PENNCOAT™ 340 Lining		Mica Flake Filled Topcoat			
SUSPENDED SOLID	S: >30%					
Bottom +3 ft Shell Wall + Baffles	1. PENNTROWEL™ VE LF	VE	Silica/Alumina Filled	Trowel Basecoat	155 mils	125 – 200 mils
			Fiberglass Reinforced	Trowel Topcoat		
Shell Wall	1. PENNTROWEL™ VE LF	VE	Silica/Alumina Filled	Trowel Basecoat	455 '1	125 – 200 mils
			Fiberglass Reinforced	Trowel Topcoat	155 mils	
Shell Wall	2. PENNCOAT™ 321/340 Lining	VE	Glass Flake Filled Basecoat	Trowel Basecoat	60 mils	50 – 80 mils
			Mica Flake Filled Topcoat	Spray Topcoat		
Roof Underside	1 DENINGO ATIM 2.40 Liveline	VE	Mica Flake Filled Basecoat	Spray	40 mils	30 – 50 mils
	1. PENNCOAT™ 340 Lining		Mica Flake Filled Topcoat			
Roof Underside	2 Nava + CC2220 C	NE	Novolac Epoxy Basecoat	Spray	40 mils	30 – 50 mils
	2. Novocoat SC3300 Series		Novolac Epoxy Topcoat			

Other ErgonArmor linings not listed may apply in some cases.









<sup>\*\*</sup> Resin Types: VE=Vinyl Ester, NE=Novolac Epoxy