

EPOXY PHENOLIC 175 RANGE

A complete range of solvent-free epoxy phenolic novolac linings — delivering high-performance protection against acid, chemical and abrasive attack. From the base lining to ceramic, glass-flake and rapid repair grades, the range safeguards tanks, pipework, pumps and process equipment across demanding industrial environments.

INDUSTRIAL & PROTECTIVE | ACID & CHEMICAL RESISTANT LININGS



ONE PROVEN CHEMISTRY, FOUR SOLUTIONS

At the heart of the range is a two-component, solvent-free epoxy phenolic novolac (EPN) coating. Its multifunctional polymer cross-links densely to deliver a high degree of chemical resistance, particularly to mineral acids and solvents. Each member of the range builds on that core for a specific duty – ceramic reinforcement, glass-flake barrier, or rapid repair.

SHARED ACROSS THE RANGE

SF

Solvent-Free High Film Build

100% volume solids with no solvents – builds to a high film thickness in fewer coats.



Excellent Adhesion

Bonds tightly to correctly prepared steel and concrete, resisting undercutting and disbondment under long-term immersion.



Acid & Chemical Resistant

Withstands continuous immersion across a broad range of acids and chemicals, plus splash and fume exposure.



Dry & Wet Temperature Resistance

Performs at elevated temperatures – up to 150°C dry and 120°C wet [chemical dependent].

SHARED ACROSS THE RANGE



Mining &
Mineral
Processing



Chemical &
Petrochemical



Water &
Wastewater



Power
Generation



Metals Processing
& Refining



PRODUCT SELECTOR

Compare the range at a glance and choose the right lining for the application at hand.

	SMOOTH	CERAMIC	GLASS FLAKE	FAST REPAIR	EPOXY PHENSHIELD PRIMER
Reinforcement	None	Ceramic Powder	Glass Flake	None	None
Standout Strength	General-purpose chemical protection	Abrasion / erosion +lubricity	Permeation barrier	Rapid cure [~1 hr]	Adhesion
Volume Solids	100%	100%	100%	100%	66%
Film Build [2 coats]	600 µm	600 µm	700 µm	600 µm	150 µm [1 coat]
Coverage	3.33 m ² /L	3.33 m ² /L	2.85 m ² /L	3.33 m ² /L	4.4 m ² /L
Mixing Ratio	3 : 1	4 : 1	4 : 1	1.5 : 1	4 : 1
Pot Life @ 25°C	1.5 - 2 hrs	1.5 - 2 hrs	1.5 - 2 hrs	5 min	1 hr
Full Cure @ 25°C	7 days	7 days	7 days	6 hours	7 days
Temp Resistance	120° - 150°C	120° - 150°C	120° - 150°C	120° - 150°C	120° - 150°C
Colours Custom colours available on request	Light Grey, Dark Grey	Light Grey, Orange	Window Grey, White	Light Grey, Dark Grey	Red Oxide
Application	Brush / Roller / Spray	Brush / Roller / Spray	Brush / Roller / Spray	Brush / Spatula	Brush / Roller / Spray

Temperature shown is indicative – confirm specific applications with our Technical Department.

THE EPOXY PHENOLIC 175 RANGE

THE BASE LINING

EPOXY PHENOLIC 175

The foundation of the range: a two-component, solvent-free epoxy phenolic novolac (EPN) coating cured with a modified cycloaliphatic amine. Its multifunctional EPN polymer cross-links densely, giving a high degree of chemical resistance – particularly to mineral acids and solvents.

BEST FOR

General-purpose acid, chemical & solvent immersion lining – protecting tanks, pipework, pumps, bunds, floors and process equipment, including surfaces exposed to chemical splash and fumes.

ABRASION & EROSION

EPOXY PHENOLIC 175 CERAMIC

Epoxy Phenolic 175 reinforced with a high level of inert ceramic powder and fillers. The ceramic loading delivers outstanding abrasion and erosion resistance in aqueous slurries, plus lubricity that reduces build-up and drag – protecting equipment where a standard lining would wear through.

BEST FOR

Slurry abrasion & erosion combined with aggressive chemical immersion – pumps, cyclones, slurry pipework.

Learn more about
our Epoxies



BARRIER PROTECTION

EPOXY PHENOLIC 175 GLASS FLAKE

Epoxy Phenolic 175 reinforced with glass flake. The overlapping flakes create a tortuous path that sharply reduces permeation and diffusion of aggressive media, while improving durability and thermal-cycling performance. Applied at a high 700µm build in two coats.

BEST FOR

Aggressive chemical environments where a dense permeation/diffusion barrier and high build are needed.

RAPID REPAIR

EPOXY PHENOLIC 175 FAST REPAIR

A fast-curing Epoxy Phenolic Novalac in a pre-portioned squish pack, designed to repair pinholes and defects in Epoxy Phenolic 175-coated items immediately before service. Nil induction and a 5-minute pot life mean repairs can be returned to immersion within a short time period.

BEST FOR

Quick in-field repair of pinholes & defects in Epoxy Phenolic 175 linings, immediately before commissioning.



CHEMICAL RESISTANCE

Indicative performance of the Epoxy Phenolic 175 range on bare steel at 20°C. Full data & resistance to other chemicals available from our Technical Department.

Hydrochloric Acid 20% +	● Continuous immersion
Sulphuric Acid 20%	● Continuous immersion
Sodium Hydroxide 20%	● Continuous immersion
Sodium Hypochlorite 12%	● Continuous immersion
De-Ionised Water	● Continuous immersion
Brake Fluid	● Continuous immersion
Acetic Acid 20%	● Splash & spill
Ammonium Hydroxide 20%	● Short-term (<3 days)
Nitric Acid 20%	● Not recommended

TYPICAL APPLICATIONS

Lining of concrete or steel tanks, bund walls, culverts, pipelines, floors, walls, piles, pumps and valves — and any equipment exposed to chemical splash & fumes or long-term abrasion and corrosion.

- Mineral Processing Plants
- Pipelines & Vessels
- Acid & Effluent Containment
- Chemical Storage Tanks
- Processing Equipment & Sumps
- Bund Walls, Floors & Sumps

QUALITY

All Epoxy Phenoluc 175 products are 100% volumesolids, solvent-free systems manufactured by Specialized Coating Systems to consistent quality standards, backed by technical support for product selection and specification.

Contact us for more info, www.speccoats.co.za

TAKE NOTE



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