

KALPOXY® NS

Epoxy Bonded Wear Compound



KALPOXY® NS is a non-sagging epoxy bonded wear compound designed to solve wear and abrasion on almost any surface. It contains ultra-high loading levels of silicon carbide (70%) and is mixed with DuPont Kevlar® fibers to create a unique non-sagging epoxy bonded wear compound with exceptional abrasion resistance and toughness.

KALPOXY NS is easy to use. It is non-hazardous and non-corrosive, making shipping and storage safe and simple. In addition, the resin does not crystallize in freezing weather, and has little or no odor. The hardener has very little odor, resulting in a user-friendly system for workers, even in confined spaces. KALPOXY NS may be used in temperatures up to 110°C (230° F), and in corrosive situations with a pH range of 3.8 to 10.0.

Mix and Cure Information

Always mix KALPOXY NS for at least 5 minutes to insure good polymer properties. Mix at room temperature to insure fast cure times and best polymer properties.

Product Properties

- Two-component system
- High wear resistance
- Jointless lining
- Low odor
- 70% solids
- Simple handling
- Easily installed horizontally, vertically or overhead
- Non-hazardous
- Ships easily, even by air

KALPOXY® NS

Two Component Wear Compound: Part A (Resin) & Part B (Hardener)

General Working Instructions:

Mix KALPOXY® NS for at least 5 minutes at room temperature (68°F) to insure good polymer properties, fast cure times and best polymer properties.

Preparation

- Pot life (minutes): 20-45
- Volumetric mix ratio: 5 to 1 (Part A to Part B)
- Weight mix ratio: 9.5 to 1 (Part A to Part B)
- Cure time: ~ 3 hours; 72°F to 86°F (at sea level)
- Cure time: ~ 75 minutes; 72°F to 86°F (at 3,000 above sea level)

Delivery and Storage

- Package size: 14 lbs / .94 gal (mixed weight)
- Storage: 2 years at room temperature (68° F)



KALPOXY® NS Properties	
Max. temp limit	230°F
Max. application pH range	3.8 - 10.0
Compressive strength	13,500 lb _f /in ²
Bending strength	4,800 lb _f /in ²
Polymer Chemical Analysis	Resin: 83.33% (by volume)
	Hardener: 16.67% (by volume)
Solids/ %	Silicon Carbide/70%
Coverage	Approx. 6 ft ² per kit @ 1/4" thick

Typical Fields

Applications

- Bunkers
- Chutes
- Cyclones
- Scrubbers
- Hoppers
- Pipe bends
- Pumps
- Separators
- Piping systems
- Silos
- Tanks
- Transport systems
- Troughs

Industries

- Aluminum smelters
- Cement industry
- Chemical industry
- Coal fired power plants
- Foundries
- Glassworks
- Mineral processing
- Mining wool production
- Mining/mines
- Ore processing
- Recycling facilities
- Refuse incineration plants
- Steel/iron
- Sewage plants



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