



Anti Corrosion Technology For Future

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Valid From: 12/03/2017 (Rev.1 - 11/2017)

## NAKI 73 SPR™ Ceramic Lining Epoxy

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Charateristics	: A solvent free, three pack polyamine cured epoxy containing high levels of abrasion resistant filler and ceramic filling.
Recommended	: Ceramic filled epoxy for the coating of internal condenser, boilers, sea-water pipe, Pump, and all cooling system equipment within Power plant and pulp and paper industries.
Health & Safety	: Read and observe health & safety datasheet prior to application
Colour	: Red
Mixing Ratio	: 4:1 by Volume (Base : Activator)  Remove lids from both component A-activator & B-base and scoop out all component A putting into component B. Mix thoroughly ensuring that no unmixed material remains. Remove all mixed material from base tin and remix on clean flat surface or shallow receptacle.
Pot Life	: Approximately 50 Minutes at 30 C. This time will vary significantly depend on temperature
Surface Preparation	: To obtain maximum adhesion the subrate should be grit blasted to SA 2.5 with 50 micron profile. If grit blasting is not possible, wire brushed surface and decontamination should be perform, surface should also be roughened to provide suitable key.
Application Equipment	: Natural Bristle brush, airless spray with 45:1 Ratio or greater.
Application Method	: This material is intended for application at thicknesses between 300 to 1,000 Micron. The material should only be applied when the surface temperature is between 10 C to 40 C.
Thinners	: Do not thin. The use of thinners in SPR 73 will significantly affect product performance
Volume Solids	: 99%





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Recommended DFT	: As a general lining 300-1,000 micron Depend on service and atmospheric duty.
Theoretical Spreading Rate	: 1 m <sup>2</sup> / Litre @ 1000 Micron thickness The amount may increase depend on geometry and nature of work undertaken and the skill and care of application.
Cure Time	: Full Cure : Approximately 48 hours at 30 C Post cure for shorter periods will increase the characteristics of this material
OverCoating Time	: Minimum : 12 Hours at 30°C Maximum : 36 Hours at 30°C
Hardness (ASTM D2583)	: 78 Barcol after full cure
Tensile Strength (ASTM D638)	: 25.2 N/mm <sup>2</sup> (3,650 psi)
Elongation at Break (ASTM D638)	: 0.8%
Pull off adhesion (ISO 4624)	: 26.7 N/mm <sup>2</sup> (3,872 psi) on blasted carbon steel
Abrasion Resistance (ASTM D4060)	: 1 Kg Load/CS-10 Wheels/830 mm <sup>3</sup> loss
Compressive Strength (ASTM D695)	: 86.8 N/mm <sup>2</sup> (12,600 psi) ambient cure
Dielectric Strength (ASTM D149)	: 20 - 25 kV/mm
Storage & Handling	: The product must be ideally stored in a cool and well ventilated place, protected from heat and direct sunlight. Containers must be kept tightly closed before and after use.
Temperature Limit	: Non immersed: 100°C, Immersed: 80°C
Packaging	: 5 and 20 Litre Tins
Shelf Life	: A minimum of 1 year in unopened tins stored below 30°C
Cleaning Solvent	: Acetone, Xylene, Toluene, MEK

### Disclaimer

The information in this data sheet is given to the best of our Knowledge based on laboratory testing and practical experience. However, product is often used under condition beyond our control; we cannot guarantee anything but quality of product itself. We deserve the right to modify from time to time according to manufacturer experience and continuous development program