Anti Corrosion Technology For Future

Data Sheet

Valid From: 23/07/2019 (Rev.3 - 7/2019)

NAKI 7 NZB™
Wear Resistance Epoxy

Charateristics	: A solvent free, three pack polyamine cured epoxy containing high levels of abrasion resistant filler, such as silicon carbide, stainless steel flakes, etc.
Recommended	: Ideal for rebuilding worn equipment, replacing corroded and abraded metal, repairing valves, pumps and castings. NZB 7 works well both in immersed and non-immersed environment. Suggested use in coal bunkers, ash handling system, & pulverised fuel lines.
Health & Safety	: Read and observe health & safety datasheet prior to application
Colour	: Dark Grey
Mixing Ratio	: 2:1 by Weight (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 30 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 70 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	: Stiff brush, putty knife, and trowel
Application Method	: This material is intended for application at thicknesses between 1 to 4mm. The material should only be applied when the surface temperature is between 10 C to 40 C. NZB 7 may be built up to any desired thickness in multiple coats
Thinners	: Do not thin. The use of thinners in NZB 7 will significantly affect product performance
Volume Solids	: 99%
Activator Type	: Formulated Amine

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Recommended DFT	: As a general lining 1,000-3,000 micron Depend on service and atmospheric duty, may be built up to any desired thickness for Repair
Theoritical Spreading Rate	: 1 m2/ 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 charateristics of this material
OverCoating Time	: Minimum : 12 Hours at 30°C Maximum : 36 Hours at 30°C
Hardness (ASTM D2583)	: 88 Barcol after full cure
Tensile Strength (ASTM D638)	: 27.9 N/mm^2 (4,046 psi)
Elongation at Break (ASTM D638)	: 0.8%
Pull off adhesion (ISO 4624)	: 26.7 N/mm^2 (3,872 psi) on blasted carbon steel
Abrasion Resistance (ASTM D4060)	: 1 Kg Load/CS-10 Wheels/830 mm^3 loss
Compressive Strength (ASTM D695)	: 86.8 N/mm^2 (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: 170°C, Immersed: 140°C
Packaging	: 1 and 5 Composite Kit
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

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