



Anti Corrosion Technology For Future

Data Sheet
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Valid From: 23/03/2016 (Rev.2 - 7/2016)

NAKI 7 NZL™ High Build Vinyl Ester

Charateristics	: is a high build vinyl ester glassflake, it use for metal repair and fill all badly pitted area. It also can be mould and machined.
Recommended	: Ideal for protection of Metal & Concrete substrates in arduous condition. NZL 7 has high chemical & acid resistance and is suitable for tank lining, pump & valve repair and protection. When fully cured, it is readily machined.
Health & Safety	: Read and observe health & safety datasheet prior to application
Colour	: Off white
Mixing Ratio	: 100 : 1 to 100 : 2 by Weight (Base : Activator) Add all the activator to the base and mix thoroughly, ensuring no unmixed materials remain. The ratio should always within these limit. Measure the correct proportion of catalyst for the amount of base & carefully add this to the base, using a suitable clean implement. Mix only as much material as may be used during the limited pot life.
Surface Preparation	: Metals: abrasive blast cleaning to Sa 2½ (ISO 8501-1:2007), SSPC SP10 or NACE 2.5 will be suitable. A minimum surface profile of 75 Microns is required. Concrete: please refer to concrete surface preparation guidelines.
Application Equipment	: Natural Bristle Brush, Trowel, or float
Application Method	: This viscous material is preferably applied over the top of NRZ 7. NZL 7 can be applied at thicknesses up to 3,000 Micron in a single film and can be built up by the use of multiple coats to any required thickness.
Pot Life	: Approximately 1 Hour 20°C. This time will vary significantly with temperature.
Volume Solids	: 99%
Thinners	: Do not thin. The use of thinners in NZL 7 will significantly affect product performance



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Recommended DFT	: 1,000 to 3,000 Microns in single applied. Depend on service and atmospheric duty, may be built up to to any desired thickness for repair.
Theoretical Spreading Rate	: 2.36 Kg/m ² at 1000 Micron dft. The amount may increase depent upon geometry and nature of work undertaken and the skill and care of application
Cure Time	: Tack Free : Approximately 3 Hours at 30°C Full Cure : Approximately 2 days at 30°C (Will vary significantly with temperature)
OverCoating Time	: Minimum : 10 Hours at 25°C Maximum : 72 Hours (These times may be substantially shorter at high ambient temperature)
Hardness (ASTM D2583)	: 48 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/10 mg 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.
Packaging	: 20 Litre Composite kit
Shelf life	: A minimum of 1 year in unopened tins stored below 20°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.