



Anti Corrosion Technology For Future

Data Sheet

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Valid From: 03/09/2014 (Rev.7 - 9/2024)

**NAKI 7 NRZ<sup>TM</sup>**

**Vinyl Ester Glass Flake**

|                       |                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Charateristics        | : A glass flake vinyl ester coating with excellent resistance to both organic and inorganic acid solutions and many solvents                                                                                                                                                                                                                                                                                 |
| Recommended           | : 7 NRZ is suitable for most chemical environments within the pH range of 0 to 14. It has excellent resistance to most solvents. It is also suitable for steel stack/chimney flues and aggressive atmospheric or spillage condition.                                                                                                                                                                         |
| Health & Safety       | : Read and observe health & safety datasheet prior to application                                                                                                                                                                                                                                                                                                                                            |
| Colour                | : Off white                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mixing Ratio          | : 98 : 2 by Volume (Base : Activator)<br><br>Add all the activator to the base and mix thoroughly, ensuring no unmixed materials remain. Remove all the mixed material from the base tin and re-mix in another container. Adding inhibitor after the catalyst will ruin the product. Please refer to product application guide.<br><br>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 will be suitable. A minimum surface profile of 50 Microns is required. Concrete: please refer to concrete surface preparation guidelines.                                                                                                                                                                                 |
| Application Equipment | : Natural Bristle Brush, Airless spray with 45:1 ration or greater. For airless spray recommended tip size 0.7-1.2mm (28-48 thou).                                                                                                                                                                                                                                                                           |
| Application Method    | : This material is intended for application in one coat in between 500 – 600 micron DFT.                                                                                                                                                                                                                                                                                                                     |
| Pot Life              | : Approximately 1 Hour 20°C. This time will vary significantly with temperature.                                                                                                                                                                                                                                                                                                                             |
| Volume Solids         | : 98%                                                                                                                                                                                                                                                                                                                                                                                                        |
| Thinners              | : Do not thin                                                                                                                                                                                                                                                                                                                                                                                                |
| Temperature Limit     | : Non-Immersed: 180°C, Immersed: 120°C                                                                                                                                                                                                                                                                                                                                                                       |



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|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Recommended DFT                  | : Dependent on intended use and site conditions, 7 NRZ is normally applied direct to the surface wet on wet at films between 600 and 1200 microns.                              |                                                                                   |
| Theoretical Spreading Rate       | : 1.41 Litre/m <sup>2</sup> at 1,000 Micron DFT                                                                                                                                 |                                                                                   |
| Cure Time                        | : Tack Free                                                                                                                                                                     | : Approximately 3 Hours at 30°C                                                   |
|                                  | : Full Cure                                                                                                                                                                     | : Approximately 2 days at 30°C<br>(Will vary significantly with temperature)      |
| OverCoating Time                 | : Minimum                                                                                                                                                                       | : 10 Hours at 25°C                                                                |
|                                  | : Maximum                                                                                                                                                                       | : 24 Hours (These times may be substantially shorter at high ambient temperature) |
| Hardness (ASTM D2240)            | : 47 Barcol after full cure                                                                                                                                                     |                                                                                   |
| Tensile Strength (ASTM D638)     | : 26.8 N/mm <sup>2</sup> (3,876 psi)                                                                                                                                            |                                                                                   |
| Elongation at Break (ASTM D638)  | : 0.7%                                                                                                                                                                          |                                                                                   |
| Pull off adhesion (ISO 4624)     | : > 12 MPa on blasted carbon steel                                                                                                                                              |                                                                                   |
| Abrasion Resistance (ASTM D4060) | : 1 Kg Load/CS-10 Wheels/12 mg loss                                                                                                                                             |                                                                                   |
| Compressive Strength (ASTM D695) | : 85.5 N/mm <sup>2</sup> (12,400 psi) ambient cure                                                                                                                              |                                                                                   |
| Shear Strength (ISO 4587)        | : 20 N/mm <sup>2</sup> (3,045 psi)                                                                                                                                              |                                                                                   |
| 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.