

6 x 1kg PART NUMBER 7461-024
10kg PART NUMBER 7461-022

HEAVY DUTY CORROSION AND ACID RESISTANT COATING

TECHNICAL DATA

Components	Two Parts – Resin & Hardener
Appearance (Resin)	Light Blue / White
Appearance (Hardener)	Amber
Kit sizes	6 x 1kg 10kg

DESCRIPTION:

NORDBAK® PS 1 is a 100% solids co-polymer coating. **NORDBAK® PS 1** gives a very hard smooth finish to dams, tanks, pipes, retaining walls and swimming pools. **NORDBAK® PS 1** is designed for higher levels of chlorine.

NORDBAK® PS 1 is an outstanding corrosion, acid resistant and wear resistant coating which can be used on steel as well as a wide variety of other substrates.

NORDBAK® PS 1 is a two-part 100% solids co-polymer coating giving maximum coating thickness in a one-coat application.

RECOMMENDED APPLICATIONS

Sugar Mills	Fruit Processing
Chemical Plants	Acid Storage Tanks
Battery Bays	Electro Winning Plants
Mineral Extraction Plants	Cold Storage Rooms
Steam Cleaning Bays	Fertilizer Factories
Electro Plating Plants	Animal Cages
Fishing Processing Factories	High Temperature Applications
Abattoirs	Oil Storage
Dairies and Cheese Factories	Sewerage Works
Petrochemical Plants	Flooring
Acid Spill Areas (Hydrochloric)	Tanks
Laboratories	Pipes

GENERAL CHEMICAL RESISTANCE

ACIDS	MISCELLANEOUS
Acetic Acid	Hydrogen peroxide
Lactic Acid	Molasses
Orthophosphoric Acid Dilute	All Hydroxides
Hydrochloric Acid (30% conc)	Ethylene Glycol
Sulphuric Acid (Dilute 50%)	Petrochemicals
Citric Acid	Pepticol Naphtha
Cyanide	Furnace Oil
Chlorides	

PHYSICAL PROPERTIES

Shelf Life	12 Months
Pot Life	45 mins
Gel Time	3 Hours @ 20°C
Cure time	6 Hours
Gel Time	3 Hours @ 20oC
Coating Specification	2 coats of 200 – 250 µm

ADVANTAGES

- The solvent free formulation ensures no shrinkage, resulting in wet film thickness being equal to dry film thickness.
- Application by paint brush or roller.
- No toxic fumes when used in enclosed areas though adequate ventilation essential.

OPERATIONAL TEMPERATURE RANGE

110°C plus continuous for pneumatic flow. Immersion temperature dependent on contents.

SURFACE PREPARATION

STEEL

Steel surfaces should be dry grit blasted to SA 2½ with a blast profile of between 70 –100µm.

Ensure that the surface is free of laitance, oil and grease contamination. Coating must be applied within 4 hours of blasting.

CONCRETE

Do not coat concrete that has not fully cured (28 days) or has been treated with a hardening solution unless previously tested. All surfaces are to be washed and then acid washed with a mild hydrochloric / sulphuric solution (not exceeding 5%) to ensure the removal of all grease and other contaminants leaving the concrete visually clean. The entire surface must then be flushed with water and allowed to dry.

APPLICATION

- Apply product with a short mohair roller (225mm).
- Product can be applied to new and used surfaces provided the correct surface preparation has been applied.
- Product must be mixed thoroughly – mix resin for 3 –5 minutes and then add the hardener and mix for a further 3 – 5 minutes.
- Mosaics can be masked off.

To ensure adequate curing, the minimum substrate temperature should be above 10°C.

NORDBAK® has a wide variety of resin systems now available. **Crusher:** NORDBAK® Fast-set and Deep Pour Grouts, NORDBAK® Trowel mix, NORDBAK® Primary, High Performance and Standard **Backing Compounds:** Wearing compounds include NORDBAK® **High Temperature Wearing Compound:** NORDBAK® High Temperature Pneu Wear, NORDBAK® Regular Wearing Compound, NORDBAK® Nordwear 5, Nordwear 8 and Nordtile wearing compounds and the Nordcoat Acid resistant coating range.

Ensure no ingress of water during mixing. Mix resin thoroughly with a low-speed drill (400rpm max for 2 minutes). Pour all the hardener into the resin and mix thoroughly until a uniform colour is achieved. All of the mixed product should be split into shallow paint roller trays and applied without delay.

COVERAGE

Coverage between 12 – 17 m² per 10kg kit depending on the surface to be coated.

APPLICATION TEMPERATURE

Material	10°C - 30°C
Surfaces	10°C - 40°C
Ambient	10°C - 40°C
Humidity	0 - 85%

TECHNICAL TIPS FOR WORKING PS1:

Working time and cure depends on temperature and mass:

- The higher the temperature, the faster the cure.
- The larger the mass of material the faster the cure.

To speed up the curing time at low temperatures:

- The lower the temperature, the longer the cure.
- In cold weather, store kits in a warm area and warm the resin between 15 - 25°C before mixing.

DO NOT MIX RESIN AND HARDENER UNTIL READY TO COMMENCE.

PROTECTION:

- All work is to be done in a well-ventilated area.
- Overalls and eye protection required.
- Refer to Material Safety Data Sheet.

STORAGE:

Store indoors on pallets at temperatures between 10°C and 35°C. Keep container tightly closed and away from acids and oxidizers. If product is removed from container do not return it to original container as contamination may have occurred.

DISCLAIMER:

The information provided in this data sheet including the recommendations for use and application of this product are based on our knowledge and practical experience and laboratory tests of the product as at the date hereof. This data sheet shall be used as a guide to the user's application.

This product has been designed for specific applications based on normal working and operating conditions, and although it may be used in different applications and working conditions such instances are beyond our control. Therefore Nordbak shall not be

liable for the suitability/merchantability of our product in your application unless we have specifically advised so in writing. Accordingly, we advise that you conduct your own investigations to confirm the suitability of our product, as it ultimately remains the user's responsibility to protect property and persons against hazards emanating from the handling and use thereof. Accordingly, any civil liability as a result of damages, injury, or death, in respect of the information in this data sheet, or any other written or oral recommendation(s) regarding the suitability of this product, are hereby excluded. Furthermore Nordbak shall not be liable under any circumstances for any consequential or incidental damages of any kind, including but not limited to loss of profits.

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