

TECHNICAL DATA SHEET

NUCOAT RESIN

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NUCOAT is an innovative and high-performance epoxy designed for use in Spray in Place Pipe (SIPP) applications. Developed to cater to the diverse needs of engineers, councils, business owners, and various industries, Nucoat offers a cutting-edge solution for extending the service life of pipes or repurposing them with remarkable efficiency.

VERSATILE APPLICATION

Nucoat is engineered to be applied through a pipe coater, utilizing a combination of centrifugal force, pressure, and a precisely calibrated pull back speed to achieve a uniform and consistent spray. Additionally, it can also be effectively used for spraying manholes, pits, and channels using a spray gun. This versatility allows Nucoat to address a wide range of projects with utmost adaptability.

PRODUCT INFORMATION

RECOMMENDED APPLICATIONS

- DN75 – DN300
- Drainage systems – sewerage and stormwater
- Trade Waste
- Marine Pipes
- Oil and Gas Pipelines

BENEFITS:

Cost-Effectiveness: By significantly extending the service life of pipes, Nucoat reduces the need for frequent replacements and repairs, leading to substantial cost savings.

Minimal Disruption: Nucoat's efficient application process minimizes downtime, enabling projects to be completed swiftly and efficiently.

Versatile Application: Suitable for various pipe sizes and shapes, as well as manholes, pits, and channels, Nucoat offers a flexible solution for a wide range of infrastructure projects.

Corrosion Protection: The advanced epoxy formulation protects against corrosion and degradation, ensuring the longevity of coated assets.



PERFORMANCE

As a spray-applied epoxy, Nucoat boasts exceptional adhesion and corrosion-resistant properties, making it an ideal choice for enhancing the durability and strength of existing pipes. Its non-structural nature ensures that it seamlessly complements existing infrastructure, focusing solely on providing a reliable protective coating system.

ENHANCED SERVICE LIFE

By forming a robust and impermeable barrier on the inner surfaces of pipes and related structures, Nucoat significantly extends their service life, effectively mitigating the risk of deterioration caused by chemical exposure, abrasion, or environmental factors. This results in substantial cost savings and reduced maintenance requirements over the long term.

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TYPICAL PROPERTIES

	Method	Value
Appearance		Liquid
Colour		Blue
Solid content by weight		100%
Neat resin flexural strength (MPa)	ISO 178	85
Neat resin flexural modulus (MPa)	ISO 178	2800
Minimum Installed Thickness (mm)		1-2
Maximum service temperature (°C)	ASTM D648	100
Minimum application temperature (°C)		5
Mixed Density (kg/litre)		1.05
Shelf life (months)		12
Pot Life		30 – 60mins (based on ambient temperature and volume)
Curing Method		Ambient
Cure Time		12 hrs (based on ambient temperature)
Chemical Resistance		(see Nuflovs HTAR TDS)

GENERAL PREPARATION

- Surface to be free of oil, grease, and flaky materials.
- Use hydro jetting and mechanical abrasion to create a suitable high-quality bonding profile prior to application.

HEALTH AND SAFETY

- Avoid contact with the skin, eyes and avoid breathing vapour.
- Wear protective gloves and glasses when mixing or applying the product.
- If swallowed, rinse mouth, do not induce vomiting.
- If on skin (or hair) remove / take off immediately all contaminated clothing. Rinse skin with water / shower.
- If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing.
- If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- For advice contact a poisons information centre on 13 11 26 (Australia) 0800 764 766 (New Zealand) or a doctor at once.

Refer to Safety Data Sheet for specific and further first aid instructions.