TECHNICAL DATA SHEET

GREENLINE POTABLE WATER EPOXY

Greenline potable water epoxy is a cure in place pipe (CIPP) resin designed for relining pipes. Liners based on this resin are suitable to be used for all potable water applications. It is 100% solids formulation with negligible cure shrinkage.

PRODUCT INFORMATION

RECOMMENDED APPLICATIONS

- General CIPP relining applications
- Relining applications where compliance with potable water testing standards is required.

FEATURES AND BENEFITS

- Available in two variants: normal cure and slow cure.
- Greenline Potable Water Part B Epoxy Hardener provides a long working time.
- Both slow and normal cure variants are designed to cure fully at room temperature only, with no hot water / steam post-cure required. When cured, liners based on these resins comply with Australian (AS/NZS 4020), USA (NSF61F), and Singapore (SS375) potable water testing standards. Copies of certificates available on request.
- Whilst we note Greenline Nuflow's Standard Hybrid Liner mechanical values below, Greenline hybrid liner can be specified and designed to incorporate a range of live and dead loadings.

TYPICAL PROPERTIES

Description	Method	Value
Appearance		Liquid
Mixed colour		Green
Solid content by weight		100%
Tensile strength in Nuflow Hybrid Liner (MPa)	ISO 527	65
Neat resin flexural strength (MPa)	ISO 178	85
Neat resin flexural modulus (MPa)	ISO 178	2800
Flexural strength in Nuflow Hybrid Liner (MPa) *	ASTM D790	75
Flexural modulus in Nuflow Hybrid Liner (MPa) **	ASTM D790	2600
Maximum pipe working pressure ***	Water Pressure	Long Term: 1200 (kPa) Short Term: Up to 1800 (kPa)
Maximum Service temperature (°C)		55
Minimum application temperature (°C)		5
Maximum application temperature (°C)		40
Mixed Density		1.04 kg / litre
Shelf life (months) without mixing Part A and B (Months)		24

** Typical properties of standard Nuflow Hybrid Liner. The Nuflow Hybrid Liner can be custom made to handle greater or lesser live and dead loads, job dependant.*
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**** Typical properties of standard Nuflow Hybrid Liner. The Nuflow Hybrid Liner can be custom made to handle greater or lesser internal pressure, job dependant.*

GENERAL PREPARATION

- For best results ensure surface is free of dust / debris and dry. This resin is tolerant to moisture or high humidity during cure.
- Use jetting and mechanical abrasion to create a suitable high-quality bonding profile prior to application.
- Mechanical tooth is required for adequate adhesion of liner to host pipe.

RESEARCH AND DEVELOPMENT TEAM
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MIXING RATIO

A (Parts by Weight)	B (Parts by Weight)
2	1

MIXING

- Read 'Hazards Identification' section of Greenline Standard Part A Epoxy Resin and Greenline Standard Part B Epoxy Hardener Safety Data Sheets.
- All epoxy resins must be thoroughly mixed prior to application. Incomplete mixing may result in tacky / soft spots and reduce the resin's ultimate strength.
- Measure the required quantities of Part A and Part B using a suitable digital balance.
- Mix ratio: 2 parts of 'Part A' to 1 part of 'Part B' by weight i.e. add 50g Part B for each 100g Part A.
- Using a powered paint mixer, wooden / plastic mixing stick or similar, thoroughly mix the Part A and Part B. Ensure a uniform green colour is obtained, with no dark green or white streaks at the corners and edges of the mixing container.

WORK & CURE TIMES

POTABLE NORMAL			
Temperature	**Work Time**	**Cure Time***	**60-70° HW Cure Time***
13°C	90 min	18 hrs	1 hrs
21°C	60 min	8 hrs	1 hrs
29°C	40 min	4 hrs	1 hrs
POTABLE SLOW			
Temperature	**Work Time**	**Cure Time***	**60-70° HW Cure Time***
13°C	2hr 30 min	36 hrs	3 hrs
21°C	1hr 40 min	24 hrs	3 hrs
29°C	70 min	12 hrs	3 hrs

*Approximate only. Cure times will be greatly influenced by temperature of water during curing. Longer cure times may be necessary when cold weather, water, water infiltration is present.

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.

CLEANING

Clean up uncured material and equipment immediately after use with acetone. Do not use solvents on skin.

AVAILABILITY

This liquid epoxy resin is supplied in 20kg and 10kg containers