

TECHNICAL DATA SHEET

COLD CURE ULTRA-VIOLET (CCUV) RESIN

ULTRALINE[®]

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Ultraline CCUV resins are 100% solids, styrene-free acrylic resins engineered with excellent wet-out capability, low-odour, and no VOC's (volatile organic compounds) or HAPs (Hazardous Air Pollutants). Ultraline CCUV resins are used with ECR fiberglass reinforced tubes. Ultraline CCUV CIPP Liners are cured using "Double Helix" CCUV LED light cores within the translucent inflatable bladders.

PRODUCT INFORMATION

RECOMMENDED APPLICATIONS

- DN75 – DN150
- Drainage systems – sewerage and stormwater
- Trade Waste
- Marine Pipes
- Oil and Gas Pipelines

*refer to Watermark Certificate No.:23299 for watermark product details

PERFORMANCE

The Ultraline CCUV CIPP Liners shall be designed and constructed to meet or exceed the minimum performance property requirements of ASTM F1743 or ASTM F1216. The required structural thickness of a Ultraline CCUV CIPP Liner shall be determined according to the design Appendices of either ASTM F1743 or ASTM F1216.

TYPICAL PROPERTIES	Method	Value
Appearance		Liquid
Colour		Light Yellow
Solid content by weight		100%
Pull-in-Place Liner Type		Alphaduct ECR 3UV PIP WR
Tensile strength in Nuflow Ultraline Liner (MPa)	ISO 527-2, ASTM D638	95
Flexural strength in Nuflow Ultraline Liner (MPa)	ISO 178, ASTM D790	150
Flexural modulus in Nuflow Ultraline Liner (MPa)	ISO 178, ASTM D790	5000
Minimum Installed Thickness (mm)		2-3
Maximum service temperature (°C)		100
Minimum application temperature (°C)		5
Flash Point (°C)		94
Mixed Density (kg/litre)		1.13
Shelf life (months)		12
Pot Life		Indefinitely stable at typical ambient working temperatures; avoid UV light exposure
Curing Method		Cold Cure LED UV light (max exotherm 66 C)
Cure Time		10 – 20 Minutes (based upon thickness)
Chemical Resistance	ASTM F1216	ECR stretchable glass; Suitable for typical sanitary sewer flows
WMTS-518:2017	ISO 11296-4	Compliant

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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.

CLEANING

Clean up uncured material and equipment immediately after use with a solvent based cleaner. Do not use solvents on skin.

STORAGE AND HANDLING

- Store in tightly closed, original container in a cool ventilated area
- Keep containers clear of explosives, food, oxidising agents and organic peroxides.

