

Resiline 320

Two component liquid applied polyurea lining

- Based on next generation aliphatic poly-isocyanate technology.
- Ideal for in-situ lining and renovation of pipelines and pipe networks.
- For use on drinking water pipelines and pipe networks.
- Apply to 4" (100mm) diameter upwards.
- Apply to iron, steel, asbestos cement, concrete and PVC.

Surface Preparation

The surface should be suitably cleaned to remove all loose or adhered deposits caused from corrosion and mains deterioration processes.

Suitable cleaning processes include:

- Power boring
- Drag scraping
- Abrasive pigging
- Pressure scraping
- Pressure jetting
- Vortex of air technique

Irrespective of the cleaning method adopted, the surface of the pipe shall be smooth, clean, free from; dust, debris and standing water.

Please Note:- For pipelines above 300mm (11") internal diameter, the proposed cleaning and pipeline preparation method should be appropriate to achieve the rehabilitation outcome required. Where adhesion is required, a minimum adhesion of 1.7MPa as measured in accordance with ASTM D4541-17 is recommended

Application

- **Resiline 320** should not be applied on substrates that are below 3°C (37°F).
- Prior to insertion of the lining hose into the main, both components shall be circulated through the hoses for sufficient time to attain a uniform temperature of 20-30°C (68°F - 86°F).
- Material temperatures in the lining rig must be 20-30°C (68°F - 86°F).
- **Resiline 320** should be applied in thicknesses of 1mm (40mil) to 14mm (551mil)

Application (continued)

- Linings from 1mm (40mil) up to 3mm (120mil) thickness can be applied in a single pass operation.
- Linings up to a maximum of 14mm (551mil) may be applied in multiple passes of approximately equal thickness with each pass not exceeding 3mm (120mil).
- The applicator should set the lining rig to apply an additional 10% of material during lining to allow for any potential uneven movement of the spray head.
- On Completion of the lining operation, the spinner cone should be cleaned by immersion in MEK (Methyl Ethyl Ketone).
- All solvent washings should be removed from site by the applicator for subsequent disposal as hazardous waste.

Cure Time

Initial set	2 minutes
CCTV inspection	15 minutes
Disinfection and return to service procedures	60 minutes
Minimum overcoating	60 minutes
Maximum overcoating	6 hours

Mix Ratio

By Volume:	3:2
By Weight:	100:72.5

Colour & Appearance

Mixed Material:	Mid Blue Liquid
Base Component:	White Thixotropic Liquid
Activator Component:	Blue Thixotropic Liquid

Pack sizes

Base and Activator are supplied separately in either 10 litre pails or 200 litre drums. The Material is also supplied in 250ml twin pack cartridges for end repairs on cut pipes.

Storage

The product must be stored in the original sealed containers at temperature not exceeding 40°C (104°F). The product shall be used within 18 months of the date of manufacture.

Resiline

Unit B, Park Barn Estate, Station Road, Topcliffe, Thirsk, YO7 3SE, United Kingdom

Tel: +44 1845 577498 Email: info@resiline.co.uk



Certified to NSF/ANSI/CAN 61

Disposal

Base and Activator components are considered hazardous materials and must be disposed of as such. Please refer to local or national regulations for the disposal of hazardous materials.

Other technical documents

Safety Data Sheets - Base and Activator
Use Instructions

Please note: for any project or application information please refer to the Resiline technical team for instructions and recommendations on info@resiline.co.uk or +44 (0) 1845 577498.

Test Data

Test Standard	Resiline 320
Tensile Strength ASTM D638-14	45.5 MPa
Tensile Elongation ASTM D638-14	4.2 %
Flexural Strength ASTM D790-17	70.5 MPa
Flexural Modulus ASTM D 790-17	2000 MPa
Hardness ASTM D2240-15	83 Shore D
Abrasion Resistance ASTM D4060-19	150mg loss per 1000 cycles (CS17 wheel, 1kg load)
Water Absorption ASTM D570-98	1.4% @ 21 Days
Adhesive Strength ASTM D4541-17	27.5 MPa
Burst Pressure (6" diameter @ 3mm) ASTM D1599-18	17.6 bar
Projected 50 Year Tensile Creep Rupture Strength ASTM D2990-17	12.5 MPa
Projected 50 Year Flexural Creep Rupture Strength ASTM D2990-17	22.5 MPa
BPA Free EPA Method 1311	Yes
VOC Free EPA Method 24	Yes

Test results obtained from extracted field samples may vary according to site application and environmental conditions.

Legal Notice:

The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine if the product is suitable for use. Resimac accepts no liability arising out of the use of this information or the product described herein.

Resiline

Unit B, Park Barn Estate, Station Road, Topcliffe, Thirsk, YO7 3SE, United Kingdom
Tel: +44 1845 577498 Email: info@resiline.co.uk



Certified to NSF/ANSI/CAN 61