

Product Data Sheet

Paracoat Cold Polyurea ST Detail

Product Ref: DsL41-0819 Issue No: 03



PRODUCT DESCRIPTION

Paracoat Cold Polyurea ST Detail is a high performance, two component, fast curing, UV stable, fully reinforced, thixotropic polyurea liquid waterproofing membrane with a thick and highly flexible overall finish. **Paracoat Cold Polyurea ST Detail** liquid waterproofing provides quick and easy wet on wet application with a low application odour.

USE

Paracoat Cold Polyurea ST Detail thixotropic liquid waterproofing is primarily specified for vertical detail work where a more viscous compound is necessary to aid effective installation. Various sealer coat options are available to provide a strong resistance to physical damage and discolouration.

APPLICATION

Preparation

- All substrates must be suitably clean or adequately prepared, dry and free from loose debris, laitance, oils or other surface contamination. Repairs to cracks, holes and other surface defects must be carried out prior to coating.
- In certain circumstances **Paracoat Cold Polyurea ST Detail** thixotropic liquid waterproofing requires an additional primer to enhance adhesive strength. Please consult the Langley project specific specification for further guidance.

Test

• Where appropriate, preliminary adhesion tests should be undertaken to ensure sufficient membrane attachment has been achieved. Adhesion tests should achieve a minimum pull value of 1.4 N/mm2.

Mixing

• Stir and homogenise both A and B parts of **Paracoat Cold Polyurea ST Detail** thixotropic liquid waterproofing separately using a mechanical mixing device at a low speed. Once individually stirred, gently pour component B into component A and stir using a mechanical mixing device at a low speed for a minimum of 2 minutes avoiding excessive air bubbles. The mixing ratio by weight should be 100 (A):6(B).

Important note: using more component B than the specified ratio will not reduce drying times and could potentially compromise membrane performance.

Langley Waterproofing Systems Limited

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Application - Upstands / Details

- **Paracoat Cold Polyurea ST Detail** thixotropic liquid waterproofing is applied in two coats, wet on wet, with a reinforcing layer between each coat.
- Once both components are fully mixed, apply **Paracoat Cold Polyurea ST Detail** thixotropic liquid waterproofing at a rate of 0.8kg/m² per coat by brush, sheepskin roller or airless spray.
- Apply the first base coat layer of **Paracoat Cold Polyurea ST Detail** thixotropic liquid waterproofing ensuring an even distribution of the product as per the application rate highlighted above.
- Cut Paracoat Cold Polyurea Reinforcement Fleece into suitably sized pieces and embed into the wet base coat ensuring the Paracoat Cold Polyurea Reinforcement Fleece is applied without folds, creases, air pockets or prominent fibres that could compromise the appearance of the final finish.
- Apply the top coat layer of **Paracoat Cold Polyurea ST Detail** thixotropic liquid waterproofing immediately afterwards ensuring an even distribution of the product as per the application rate highlighted above.
- Overall application rate should be a minimum of 1.6kg/m² in two separate coats.
- The wet top coat should be inspected for any wicks or loose fibres. If present, embed any wicks or loose fibres into the wet top coat with the Paracoat Embedment Roller.
- Ensure the application rate is followed stringently as over application may adversely affect curing time.
- Recommended ambient temperature application should be between 10-40°C.
- **Paracoat Cold Polyurea ST Detail** thixotropic liquid waterproofing should be applied to substrates with a minimum surface temperature of >5°C and rising.

Curing Time

• Solvent evaporation will typically take place within 30 minutes and overall curing time will be 2-3 hours on average. However, this figure may vary subject to climatic conditions.

TECHNICAL DATA

Product Properties		Component A	Component B
Chemical description		Polyisocyanurate Prepolymer	Polyamine Mixture
Physical state		Liquid	Liquid
Non-volatile content		Approx 85%	43%
Flash point		45°C	26°C
Colour		Light Grey (RAL 7001)	Dark Brown
Density		1.3 g/cm3 (20°C)	0.99 g/cm3 (20°C)
Viscosity		10000mPa.s (20°C)	5mPa.s (20°C)
VOC class as per 2004/42/EC		184 g/L (15%)	572 g/L (57%)
Pot Life			
	5°C	180 mins	
	23°C	60 mins	
	35°C	30 mins	
Hardness (Shore)		65-70A (ISO 868)	
Elongation		421% (EN-ISO 527-3)	
Tensile strength		3.4 MPa (EN-ISO 527-3)	
Tear resistance		14 N/mm (ISO 34-1 method B)	
Water vapour permeability		µ=1000, 20 g/m², (EN 1931)	
Thermal resistance		Up to 120°C	
Fire performance		Broof(t4)	
Typical system thickness		Approx 1.6 mm (based upon 2x 0.8kg coats)	
Shelf life		12 months	

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PACKAGING

- **Paracoat Cold Polyurea ST Detail** thixotropic liquid waterproofing is supplied in 26.5kg kit (A & B overall) with metal containers.
- Palletised information is available upon request.

STORAGE

- Store in a sheltered, cool and dry environment away from any heat or ignition source.
- Store between 10°C 30°C.
- Partly used containers should be resealed immediately and re-used as quickly as possible.
- Combined products cannot be resealed and pot life information above should be followed.

HEALTH AND SAFETY

- **Paracoat Cold Polyurea ST Detail** thixotropic liquid waterproofing contains flammable solvent. Take all necessary precautions during handling and transport.
- Empty containers of **Paracoat Cold Polyurea ST Detail** thixotropic liquid waterproofing should be considered as hazardous waste and disposed of with an authorised waste management company.
- See the appropriate Health and Safety Data Sheet for more detailed information.

The above information is issued in good faith and without warranty and is intended as a guide only. The information comprises of typical data and does not constitute a specification.

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