

Spray Applied Polyurea System

DESCRIPTION

TamSeal EP11 is a two component, 100% solids fast-curing pure Polyurea system designed especially for its abrasion and corrosion resistance and water proofing characteristics.

The exceptional physical properties of this pure polyurea system provide outstanding abrasion resistance. The extremely high tensile strength and elongation provides protection from mechanical damage and resistance to puncture and tear. It may be sprayed to a thickness of greater than 1mm per coat and cures to become water insensitive within minutes.

KEY BENEFITS

- > Abrasion resistance
- > Potable water approved
- > Tough and durable
- > High flexibility
- > Waterproof
- > Good resistance to many dilute acids, alkalis, salts and solvents
- > Product can be tinted

TYPICAL APPLICATIONS

- > Dams
- > Underground structure lining
- > Bund lining
- > Truck / Ute lining
- > Waste water linings
- > Man hole & sewer lining
- > Tank lining / coating
- > Pipeline lining / coating

TECHNICAL DATA

TamSeal EP11		
	Comp A	Comp B
Density	1.11	1.00
Viscosity @25°C	710 mPa·s	280 mPa·s
Solids (mixed) by volume (%)	100	
Flash point (closed cup)	210°C	>116°C

TamSeal EP11	
Tensile strength ASTM D412-92	18.6 MPa
Elongation @24°C ASTM D412-92	> 380%
Tear strength ASTM D624-86	> 105 N/mm
Hardness ASTM D2240-91, Shore D	45 - 47

All technical data stated herein is based on tests carried out under laboratory conditions.

APPLICATION GUIDELINES

Thickness: The recommended minimum thickness for high abrasion resistance is 3 mm and for corrosion, chemical resistance and waterproofing is 2 mm.

This product can be applied from 1 mm to 20 mm thick in one operation. To build up thickness, allow just enough cure time for the first coat to become firm, prior to applying the subsequent coats.

This coating is designed for application using heated plural component, high pressure, airless spray equipment, capable of supplying material at the spray gun at a minimum of 180 bar spray pressure with material temperature of 55 - 60°C

Mix Ratio: 1:1 by volume

Preparation

Priming may be required prior to application of TamSeal EP11 depending on the substrate. We recommend the use of TamSeal EP Primer for priming, please contact your local Normet representative for more details.

The materials should be maintained prior to any application at an optimum temperature of 24 - 27°C. This may mean heating the material in the drum if the surrounding ambient temperature is much lower than 24°C. This will allow the pre-heaters to reach and maintain the proper application temperatures of the materials.

Note: No solvent should be allowed to come in contact with or be added to the 100% solids coatings. Viscosity can be reduced by an increase of temperature.

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Spraying

Spray continuously using a 50% overlap to ensure an evenly coated surface and minimise triggering the gun.

Application Temperatures:

Minimum material and substrate temperature is 2 - 24°C.

Maximum substrate temperature is 50°C.

This material will become tack-free within 30 - 60 seconds of spraying. Development of a full cure may take up to 24 hours. Material may be recoated when tack-free. Older coatings should be lightly abraded to remove any oxidised material and cleaned thoroughly prior to recoat.

Cleaning

We recommended the use of TamPur cleaners. For more information, please contact your local Normet representative.

Limitations

- > This product will discolour and will undergo surface chalking when exposed to sunlight.
- > Do not use where the substrate surface temperature is below 2°C or above 50°C.
- > Do not allow solvents to come in contact with or be added to the 100% solids coatings.
- > Technical enquiries regarding application, surface preparation or suitability should be forwarded to your local Normet representative.

STORAGE

TamSeal EP11 should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of six months can be expected.

HEALTH & SAFETY

TamSeal EP11 should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.