TECHNICAL DATA SHEET
Poly-Tech 700

NON-SOLVENTED SPRAY ELASTOMER

Poly-Tech 700 is a two component, spray-in-place, solvent free, 100% solids polyurethane elastomer system.

The product has a fast reaction profile as it is formulated for spray application through plural component spray equipment.

The fast cure of the product allows for a textured surface, multipurpose material for commercial and industrial applications with the benefits of polyurethane chemistry. The polyurethane spray system is based on unique chemistry for allowing a controlled build-up in hardness and maintaining a degree of flexibility. This product has been designed for softer more flexible polyurethane systems with lower hardness requirements.

PRODUCT SPECIFICATION

	Part A - Isocyanate	Part B - Polyol
Colour	Clear to straw coloured	Amber to hazy liquid
Viscosity @ 40 °C (cps)	300	200
Specific Gravity @ 25°C	1.15	1.01

PROCESSING CHARACTERISTICS

- Store in a dry location as urethane components are susceptible to moisture contamination.
- In cold weather, the containers should be kept above 15°C to maintain them in liquid condition.
- Precondition drums at 25-30°C and apply at 40-50°C at the gun.
- **The polyol should be thoroughly mixed by mechanically means using a stirrer inside the pail or drum first**. As the polyol is a blend of different components it requires mixing before use.

Mix Ratio, Part A / Part B (by volume)	1:1
Mix Ratio, Part A / Part B (by weight)	100/109
Pot Life @ 40°C (seconds) (Hand-mix)	10 - 18

Coating thickness of approximately 0.5-1 mm per pass is recommended. Several millimeters can be achieved very quickly by allowing 50-60 seconds cooling between passes. This product has been designed to spray in thicker sections up to 8-10 mm.

SURFACE PREPARATION

Please consult **Poly-Tech** for specific details on recommended primers for other surfaces.

Substrates should be clean and dry. Any water on the substrate will react with the system when spray and caused a less than satisfactory finish.

EQUIPMENT

Use only 1:1 mix ratio (by volume) in heated plural component spray equipment. Both low and high-pressure equipment can be used.

CURE DETAILS

Curing rate of this product is dependant on the ambient and surface temperatures. As the temperatures increase, the curing rate decreases.

PHYSICAL PROPERTIES

Hardness (Shore A)	65 - 75
Tensile Strength (MPa)	7.2
Elongation (%) +/-	260
Angle Tear Strength (kN/m)	32
Trouser Tear Strength (kN/m)	12
Flexural Stress (MPa)	12.1
Specific Gravity	1.02
Din Abrasion ($mm^{3)}$	180
Colour	White / Pale yellow

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