

# TECHNICAL DATA SHEET

## Poly-Tech 700

### NON-SOLVENTED SPRAY ELASTOMER

poly-tech

COMPLETE ACID PROTECTION

**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 mechanical 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.

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## 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

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

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