

TECHNICAL DATA SHEET

Poly-Tech 900 PW

NON-SOLVENTED SPRAY ELASTOMER
POTABLE WATER CERTIFIED AS/NZS 4020

poly-tech

COMPLETE ACID PROTECTION

Poly-Tech 900PW is a medium performance, non-solvented polyurethane spray elastomer. It is characterized by a solids content of 100% and possesses a good abrasion resistance.

This product is certified in accordance with AS/NZS 4020 (Testing of products for use in contact with drinking water).

The spray applied elastomer is ideal for use as a lining membrane, as it offers good physical properties.

Additionally it offers:

1. Convenient 1:1 (volume) mix ratio.
2. 100% solids –Zero V.O.C.
3. Fast build for very thick requirements – reduced labour and time.
4. Fast curing for quick turn around times – cost effective.
5. Hydrolytic stability and corrosion resistance.
6. Good abrasion resistance and toughness.
7. Bonds to any substrate when the appropriate surface preparation and recommended primers are used.
8. Remains flexible and is therefore very suitable to handling expansion and contraction of metal associated with climate change or equipment that is subject to movement.
9. Requires plural component application equipment only.
10. Designed for heavy-duty industrial applications where elastomeric coatings/linings are specified.

PRODUCT SPECIFICATION

	Part A	Part B
Colour	Clear, pale yellow	Amber/brown
Viscosity @ 25 °C (cps)	1800	185
Viscosity @ 40 °C (cps)	100	70
Specific Gravity @ 25 °C	1.10	1.02

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 50-60°C at the gun.
- The substrate should be at least 20°C or hotter.
- **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)	100/92
Pot Life @ 25 °C (seconds)	12

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 information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Poly-Tech cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

Light duty abrasive coatings	1 - 2 mm
Medium duty abrasive coatings	2.5 - 5 mm
Heavy-duty abrasive coatings	5 or more
Corrosive protection	1 - 1.5 mm

SURFACE PREPARATION

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

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 AND RECOAT DETAILS

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

	10 - 15°C	20 - 30°C	30 - 40°C
Hard coating (minutes)	20	10	6
Full cure (days)	7	6	5
Recoat – minimum (minutes)	< 8	< 4	< 2
Recoat – maximum (hours)	5	3	2

PHYSICAL PROPERTIES

Hardness (Shore A)	90 ± 3
Tensile Strength (MPa)	13.9
Elongation (%) +/-	190
100 % Modulus (MPa)	9.3
Angle Tear Strength (kN/m)	42
Trouser Tear Strength (kN/m)	12.7
Water vapour transmission (g/m²/24 hours)	10.1
Specific Gravity	1.02
Din Abrasion (mm³)	120
Colour	White / Pale yellow

This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Poly-Tech cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.