

## P78 POLYASPARTIC

### FOR PROFESSIONAL USE ONLY

**PACKAGING** 19 Litre Kit – Part A 9.5 Litres – Part B 9.5 Litre in ‘Open Header’ 20 Litres Pails

**DESCRIPTION** P78 is a two-component, 91% volume solids, aliphatic polyaspartic coating system.

**COLOUR/PIGMENT** Product is colourless as supplied. Recommended pigments are available to provide an opaque finished coating. Maximum pigment addition rate is **10% parts by weight on total mixed coating weight**. Pigment addition is to be made to the mixed product.

**RECOMMENDATIONS** It is recommended for use over suitably prepared concrete, plywood and steel surfaces as a decorative | protective coating system. It forms a waterproof membrane. It is also recommended as a topcoat for application over compatible aromatic polyurea, polyurethane and epoxy coatings.

P78 is specifically formulated to be installed in thin film applications.

**AREAS OF USE**

- Domestic Garages and driveways
- Commercial and industrial concrete and plywood floors
- Food processing operations
- Cold storage area floors
- Chemical plants
- UV protective coating for compatible aromatic polyurea, polyurethane and epoxy coatings

**FEATURES**

- UV RESISTANT FOR Superior Gloss Retention
- Good Abrasion Resistance
- High Gloss Level
- High Tensile Strength
- Fast Cure
- Contains UV Absorber
- High Pigment loading possible provides excellent opacity
- Ambient Application Temperature range: 2°C to 40°C
- In – Service Temperature range: -15°C to +90°C

## COMPONENT MIXING

P78 may not be diluted under any circumstances. P78 Part A and Part B should be stirred individually before combining.

Use an air-powered slow speed drill fitted with a flat blade type mixer. Mix well without aerating the component liquids.

Ensure that if the product has been supplied with pigment already added to the Part B that full dispersion has been achieved before adding the Part A.

## MIXING OF SYSTEM COMPONENTS

It is recommended to adjust each Component's temperature to 15 - 25°C prior to mixing. **DO NOT** mix more material than can be used within 30 minutes.

- i. Add equal Parts by Volume of each Component to a clean and dry steel pail.
- ii. Mix with a slow speed 'paddle type' air powered mixer until a homogeneous mixture and colour is obtained (at least 5 minutes). **DO NOT** aerate the product when mixing as this may result in pinholes / blisters in applied coating or shorten the Pot Life of the mixed product.
- iii. Mix frequently during application to maintain uniform colour.
- iv. Use care to scrape the sides of the mixing container to ensure that no unmixed material remains.

## APPLICATION

P78 can be applied by high pressure spray, or through a 'cup gun' under low pressure or with a phenolic resin core roller.

P78 should be applied at a minimum film thickness of nominally 130 microns, a nominal application rate of 0.35 litres per m<sup>2</sup>.

It should be noted that the heavier the application, the longer the curing process takes.

Apply P78 evenly over the entire area to be coated. For best results, apply with an airless spray system. If a phenolic resin core roller is used extra care should be taken not to cause air bubbles in the applied product.

**NOTE:** Use caution in relation to quantity of each batch mix size, application time and thickness of application.

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## CURING TIMES – Between Coats | Light Traffic | Full Use

At nominally 20°C and 50% relative humidity, allow each coat to cure for a minimum of 3 to 4 hours between coats. The cure time will be directly affected by the applied wet film thickness. Allow a minimum of 6 hours before permitting light pedestrian traffic. Allow at least 24 to 48 hours depending on the atmospheric [ie.curing] conditions, before permitting heavy pedestrian or auto traffic on the finished surface. Higher temperatures and/or high humidity will accelerate the cure time. Low temperatures and/or low humidity will extend the cure time. Uncured P78 is very sensitive to heat / moisture and surface marking.

## USAGE RATE

Minimum Recommended Application Coverage Rate

300 microns DFT [Dry Film Thickness]  
0.38 litres per square metre total  
Apply in 2 x coats @ 0.19 litres/m<sup>2</sup>/coat

## SPECIFICATIONS

Pot Life @ 24°C/50%RH	30-40 minutes
Cured Film Hardness	65 ±2 Shore D [ASTM D – 2240]
Tear Resistance *	400 ± 50 pli [Die C – ASTM D-624]
Tensile Strength*	3000 ± 200 psi [ASTM D-412]
Ultimate Elongation	100 ± 20% [ASTM D-142]
Specific Gravity	Part A = 1.13 Part B = 1.05
Total Solids by Weight	90 ± 2% [ASTM D-2369]
Total Solids by Volume	91 ± 2% [ASTM D-2697]
Viscosity at 24°C	Part A = 600 ± 200 cPs Part B = 1100 ± 300 cPs
Volatile Organic Compounds	12 gms / litre [ASTM D-2369-81]

**NOTE:** *The application thickness is directly related to the requirements of where the product is being applied. In high wear areas or when aggregate is to be added additional application thickness is required*

**\*PIGMENTED PRODUCT WILL REDUCE THESE PROPERTIES BY NOMINALLY 7% [TR] AND 15% [TS] RESPECTIVELY**

## EQUIPMENT CLEAN UP

Equipment should be cleaned immediately after use with an environmentally safe solvent, as permitted under local regulations.

## STORAGE / SHELF LIFE

The P78 Components have a shelf life of one (1) year from date of manufacture in original, factory sealed containers when stored in a normal factory/warehouse environment at 15°C to 35°C. Do not store near sources of or external walls subject to heat or cold.

## PRECAUTIONS / LIMITATIONS

- Mix no more material than can be used within 20-30 minutes.
- Surfaces must be dry, clean and free of foreign matter
- Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications.
- Coated surface may be slippery when wet.
- Containers that have been opened must be used as soon as possible.
- Do not dilute with any solvent under any circumstance.

## SAFETY

Both the components are classified as **HAZARDOUS** according to criteria of NOHSC. Refer to the **MATERIAL SAFETY DATA SHEETS** for both the components prior to using this product. Both components are **FLAMMABLE**.

## PRODUCT WARNING

**On-Crete Australia Pty Ltd** has no control over the use or storage of this product and therefore does not accept any liability in this regard. Any verbal advice given should not be regarded as authoritative information. This information is subject to change without notice, therefore all applicators should ensure they have current information. This product is intended for the use only of skilled tradesmen and where applicable, statutory licensed tradesmen experienced and trained in the use of this product. This product is warranted to be of uniform quality within the manufacturer's tolerance. This manufacturer has no control over the use or misuse of this product, therefore no warranty rests or implied, is or can be made either as to the effects of such use. The manufacturer's obligations shall be limited to replacing product proving to be defective.