

# Beam Ultratect PSX

## Clear Polysiloxane Rust Protection

### FEATURES

**Ultratect PSX** is a two pack coating based on polysiloxane technology, used as a finishing high gloss clear to give protection in extreme conditions. The silicone backbone reacts to form an extremely hard, non-yellowing surface which has significantly improved oil and water repellence than standard two pack top coats. The most enhanced feature is the reduced dirt adhesion of the coating making it very difficult for minerals, salts and general dirt and grime to stick to this surface. In working situations where extreme conditions abound, the coating is easy to clean and so enhances the life of the existing coating and substrate. The silicone modification enhances the surface hardness which improves the mar and scratch resistance also.

**Ultratect PSX** is a medium solids product designed to be used as the final coat of a protective coating system, to enhance to life and durability of that system. It can also be applied to suitably prepared existing coatings.

**Ultratect PSX** can be used a high end, non-sacrificial anti-graffiti final coat. The main feature of this coatings surface repellent properties makes graffiti difficult to adhere and easy to remove.

### RECOMMENDED USES

**Ultratect PSX** is applied as a final clear protective coating to protective coating systems which provides enhanced protection and ease of cleaning. It is ideal for harsh environments to protect assets from build of minerals, salts and general dirt and grime. The ease of cleaning prolongs the life of the asset and the overall durability of the coating system. It is suitable for the protection of uncoated metals, making it difficult for foreign substance to adhere to the metal surface, prolonging the life of the metal and enhancing the appearance. The coating also protects against graffiti attack, enabling the graffiti to be easily removed.

It finds uses in the protection of equipment and machinery in the following industries;

- Mining
- Oil and Gas
- Transport; road and rail tankers/trailers
- Agriculture
- Chemical
- General construction
- **Caution:**

*Due to its silicone component, Ultratect PSX Polysiloxane must be recoated within 12 hours of application; otherwise subsequent adhesion will be affected.*

### SPECIFICATION DATA

<b>Colour:</b>	Clear	<b>Mixed Volume Solids:</b>	~42%
<b>Finish:</b>	High Gloss	<b>Dry Film Thickness:</b>	40 micron DFT
<b>Mixed Density:</b>	~1.05 g/cc	<b>Wet Film Thickness:</b>	100 micron WFT
<b>Packaging:</b>	4, litre kits	<b>Coverage:</b>	~ 13 m <sup>2</sup> / litre @ 40µ DFT
<b>Mix Ratio:</b>	4 parts base: 1 part hardener by volume	<b>Number of Coats:</b>	1 mist coat 1 full coat wet on wet.
<b>Cleanup:</b>	Thinner AU160	<b>Pot Life:</b>	~ 3 hours @ 25°C
<b>Storage:</b>	Store under cool dry conditions away from heat and sources of ignition.	<b>Touch Dry:</b>	60-90 @ 25°C
		<b>Recoat:</b>	Wet on Wet
		<b>Hard Dry:</b>	18-24 hours
		<b>Full Cure:</b>	7 days

## PERFORMANCE

<b>Temperature Resistance:</b>	Up to 120°C dry heat
<b>Abrasion Resistance:</b>	Excellent
<b>Weatherability:</b>	Excellent
<b>Solvent Resistance:</b>	Excellent
<b>Chemical Resistance:</b>	Excellent

## SURFACE PREPARATION

The surface to be coated must be clean dry and free from surface contamination.

Surfaces previously coated with a urethane top coat, as part of a protective coating system, must be cleaned with Methylated spirit and abraded using 3M Scotchbrite Pads which abrade, clean and protect the surface.

## DIRECTION OF USE

Mix 4 parts by volume of **Ultratect PSX** Part A with 1 part by volume of part B. Allow 5 minutes reaction time prior to application.

Ultratect PSX is best applied by Airless or HVLP Spray. The required film build of 100 micron wft (to achieve 40 microns DFF) needs to be applied by wet on wet, multiple coat applications. Start with a mist coat, allow tack off time and apply full coat and repeat, allowing adequate tack time of 10-15 minutes.

Thinning is generally not required; however a small amount (5% v/v) of Cameleon Thinner AU160 may be added if required

Caution: Due to the high silicone content, it is not possible to apply further coating after the Ultratect PSX has achieved hard dry.

**Do not apply if temperature is below 5C or Relative Humidity is above 85%.**

## PRECAUTIONS

*\*Note: The figures quoted for pot-life and drying times may vary with local conditions - such as ambient temperature and humidity, storage conditions, and volume mixed. If the temperature is high (>25°C), the material is stored in the open, or a large volume is mixed, then the pot-life will be significantly reduced.*

**The recoat window is extremely important as Ultratect PSX Polysiloxane will cure extremely hard. Recoating after 12 hours will require sanding of the previous coating to provide mechanical adhesion.**

**IMPORTANT!** See the Beam Rustproofing General Safety Data Sheet, Product label, and Material Safety Data Sheet (MSDS) for health and safety information prior to use.

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