

# Pen Shield AC25

Solvent based acrylic sealer for masonry surfaces

## DESCRIPTION

Pen Shield AC25 is a clear or coloured concrete dust proofer and sealer that makes concrete easy to clean while ensuring the surface is resistant to penetration from oils and other liquids. It is ideal for external driveways, light industrial floors, warehousing and car parking areas. **Pen Shield AC25 is available in a Gloss or Matt finish.**

Pen Shield AC25 has excellent adhesion to cementitious based products.

## PRODUCT FEATURES & BENEFITS

- Excellent adhesion
- Easy to apply with brush, roller or spray application
- Comes ready to use
- UV stable
- Easy to re-coat
- Suitable for external use
- Cost effective

## TYPICAL APPLICATIONS

Pen Shield AC25 can be used in a variety of applications, driveways, warehouse floors, light industrial floors, urban landscaping, patios and entertaining areas.

## APPLICATION RATES

Pen Shield AC25 is designed for a two coat application, total application rates over two coats are typically between 2-3m<sup>2</sup> per litre depending on the substrate. (Contact manufacturer for more details).

## PACK SIZES

Pen Shield AC25 is available in 200ltr & 20ltr containers.

## PERFORMANCE PROPERTIES

<b>COLOUR</b>	<b>CLEAR/COLOURED LIQUID</b>
<b>FINISH</b>	<b>GLOSS</b>
<b>VOLUME SOLIDS</b>	<b>APPROX 25%</b>
<b>SPECIFIC GRAVITY</b>	
<b>POT LIFE</b>	<b>12 MONTHS IN FULLY SEALED DRUM</b>
<b>DRYING TIME</b>	<b>TOUCH DRY 2 HOURS @ 25°C</b>
<b>RECOAT TIME</b>	<b>2 HOURS AT 25°C</b>
<b>FULL CURE</b>	<b>7 DAYS @ 25°C</b>

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## SURFACE PREPARATION

The concrete substrate must be cured in accordance with relevant standards, the concrete must be a cured for a minimum of 7 days prior to the application of Pen Shield AC25.

All concrete must be clean, dry and free of all contaminants prior to the application of Pen Shield AC25, this includes curing compounds and release agents.

As Pen Shield AC25 is a relatively thin coating the substrate must be a fine texture, any surface irregularities will cause extra wear on the coating.

## APPLICATION OF PRODUCT

### *Existing Concrete*

All surface contaminants must be removed, once removed clean the concrete surface using CONPELL GP Degreaser, making sure to remove all oil stains (strictly following manufacturer's instructions), then ensure all traces of the degreaser is thoroughly washed away using a high pressure water blaster. To remove dirt and moss/mould, efflorescence or laitance clean the surface using a mild acid wash (one part hydrochloric acid to 20 parts water). Always wet the surface prior to applying acid solution, once acid wash solution is applied leave the acid wash solution on the surface for up to five minutes then remove acid wash solution using clean water and a high-pressure water blaster. **DO NOT USE ACID SOLUTION ON COLOURED CONCRETE.**

If the surface is sealed, apply a thin coat of xylene to soften the sealer prior to application of Pen Shield AC25.

If an existing sealer is unknown, apply a small sample of Pen Shield AC25 to a small area and observe for two-three weeks, evaluate whether the sealers are bonding satisfactorily. If the existing sealer is unsound, the original sealer will need to be completely removed, all surfaces must be thoroughly dry before applying the sealer.

### *Over New Concrete*

All surface contaminants must be removed, once removed clean the concrete surface using CONPELL GP Degreaser, making sure to remove all oil stains (strictly following manufacturer's instructions), then ensure all traces of the degreaser is thoroughly washed away using a high pressure water blaster.

Where efflorescence or laitance are present, cleaning the surface using a mild acid wash may be required (one part hydrochloric acid to 20 parts water). Always wet the surface prior to apply acid solution, once acid wash solution is applied leave the acid wash solution on the surface for up to five minutes then remove the acid wash solution using clean water and a high-pressure water blaster. **DO NOT USE ACID SOLUTION ON COLOURED CONCRETE.**

All concrete surfaces must be thoroughly dry before applying the sealer.

## Application

### *FIRST COAT*

1. Stir thoroughly prior to use, over previously unsealed concrete thin the first coat with xylene up to 20%.
2. Apply Pen Shield AC25 using a quality solvent resistant broom head, medium napped roller or metal low-pressure sprayer.
3. Do not apply in direct sunlight.
4. Ensure a consistent coating is achieved to avoid roller/overlap marks.
5. Allow a minimum of 2 hours @ 25°C between coats, for best results allow 24 hours before applying the second coat.

### *SECOND COAT*

Stir thoroughly and apply as above, however thinning is not required. Apply the second coat at right angles to the previous coat.

## CLEAN UP

Wash all equipment up in xylene.

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## PRECAUTIONS

- Do not apply to damp surfaces.
- Protect surrounding areas from overspray, buildings, plants, drains etc.
- Wear suitable protective wear, solvent resistant gloves, protective clothing, safety goggles and organic vapour respirator.
- Protect sealed surface from moisture for a minimum of 6 hours.
- Avoid applying Pen Shield AC25 in windy conditions.
- Apply Pen Shield AC25 between 10°C - 35°C.

## COATING LIFESPAN

The expected lifespan of the coating will be effected by the location, weathering and traffic the concrete is subjected to. In exposed, heavy traffic areas, re-coating may be necessary after 18 months. In light use areas, protected from adverse weather conditions the coating will last longer.

## TRACTION ENHANCEMENT

The final texture must be created through the texture of the concrete surface, care must be taken when sealing concrete to ensure that the surface texture has sufficient profile to provide adequate traction.

If added traction is required, Conpell crushed glass or CA60 should be broad cast between coats of Pen Shield AC25, this however is only a short term solution as the crushed glass will break down with regular traffic.

## STORAGE

- Keep Pen Shield AC25 stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- Pen Shield AC25 has a shelf life of 12 months in an unopened container.
- Ensure partly used drums are correctly sealed. Keep Pen Shield AC25 stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- Pen Shield AC25 has a shelf life of 12 months in an unopened container.
- Ensure partly used drums are correctly sealed.

**FIRE** Pen Shield AC25 is flammable.

## SAFETY PRECAUTIONS

- **Wear appropriate protective equipment, including clothing, gloves, appropriate respiratory mask and goggles.**
- **If poisoning occurs, contact doctor or Poisons Information Centre.**
- **If contact with skin occurs, remove contaminated clothing and thoroughly wash skin.**
- **If swallowed do not induce vomiting, give a glass of water.**
- **If in eyes, hold eyes open and flood with water for at least 15 minutes then see doctor immediately.**
- **For further information refer to the relevant Material Safety Data Sheet.**

## IMPORTANT INFORMATION

The information and recommendations relating to Pen Shield AC25 are given based on current knowledge and experience. Due to variances in material substrates and site conditions no warranties implied by law or, fit to purpose of the product can be implied. We accept no responsibility for loss or injury due to the incorrect handling or improper use of the product, limiting the cost of our liability to the replacement product cost only. Always refer to current Product Technical Data Sheets.

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