

# Pen Shield Ultra WB

Water based high performance impregnating sealer for masonry surfaces

## DESCRIPTION

Pen Shield Ultra WB is an environmentally friendly high performance, water based impregnating sealer that provides long lasting protection to concrete pavers, sandstone, limestone and concrete from the damage caused through water borne & oil based contaminants.

Pen Shield Ultra WB is not recommended for non-porous substrates including natural stones. For natural stone CONPELL recommend Pen Shield or Pen Shield Ultra. Pen Shield Ultra WB is ideal as a finishing sealer for both internal & external polished concrete. Pen Shield Ultra WB may alter the look from the original product; a test sample should always be prepared and allowed to cure prior to proceeding.

## PRODUCT FEATURES & BENEFITS

- Excellent resistance to water borne & oil based staining
- Environmentally friendly, **Meets "Green Star Building" Code**
- Excellent penetration
- UV stable
- Minimises efflorescence
- Reduces mould growth
- Allows trapped moisture to escape
- Excellent chloride ion salt resistance
- Non-flammable
- Cost effective

## TYPICAL APPLICATIONS

Pen Shield Ultra WB can be used in a variety of applications, alfresco dining, swimming pool surrounds, urban landscaping, patios, walkways and entertaining areas. Pen Shield Ultra WB is ideal for sealing external concrete surfaces in commercial, multi-residential & shopping centre developments or as a finishing sealer for internal & external polished concrete. For internal polished concrete the floor must be polished to a minimum of 400 resin pucks.

## APPLICATION RATES

Total application rates - For external concrete typically between 3-5m<sup>2</sup> per litre depending on the substrates porosity. For internal polished concrete 20 - 40 sqm per litre depending on the porosity of the concrete. (Contact manufacturer for more details).

## VOC RATING

TVOC's calculated as the sum total of the VOC's of each individual raw material component.  
VOC total of **54.85 grams per litre** of ready to use product.

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## PERFORMANCE PROPERTIES

|                  |                                         |
|------------------|-----------------------------------------|
| COLOUR           | WHITE LIQUID                            |
| FINISH           | COLOUR ENHANCING PENETRATING FILM       |
| VOLUME SOLIDS    | APPROX 8%                               |
| SPECIFIC GRAVITY | 0.80KG/LITRE                            |
| RECOAT TIME      | 2 HOURS AT 25°C                         |
| POT LIFE         | INDEFINITE (DRIES BY WATER EVAPORATION) |
| FULL CURE        | 7 DAYS @ 20°C 50%RH                     |

## PACK SIZES

Pen Shield Ultra WB is available in 200ltr, 15ltr and 5ltr containers.

## SURFACE PREPARATION

The concrete substrate must be cured in accordance with relevant standards; the concrete must be a cured for a minimum of 3 days prior to the application of Pen Shield Ultra WB. All concrete must be clean, dry and free of all contaminants prior to the application of Pen Shield Ultra WB; this includes curing compounds and release agents.

## APPLICATION OF PRODUCT TO EXTERIOR CONCRETE

- Always test the product on the substrate and allow to cure to ensure the desired result is achieved.
- Apply product straight from the container, no dilution is required.
- The surface must be free of all contaminants including previous coatings prior to the application of the sealer.
- The surface may be damp but not wet prior to application of the sealer.
- Apply the product to the substrate using a low-pressure sprayer, ensuring the entire surface has been evenly coated.
- Once the Pen Shield Ultra WB has had time to penetrate sufficiently (approx 10 -30 minutes) use a broom or micro fibre mop to spread/remove any ponding or excess material. **Do not** stand in any wet sealer during this process as this may cause staining to occur.
- For optimal results coverage rates should be strictly adhered to.
- Ensure no product comes in contact with surrounding areas.
- Any material left on the surface will lead to discolouration.

## APPLICATION TO INTERNAL POLISHED CONCRETE

- **Pen Shield Ultra WB must only be applied to floors that have been polished to a minimum of 400g RESIN.**
- Always test the product on the substrate & allow to cure to ensure the desired result will be achieved.
- Apply product straight from the container (no dilution required).
- Surface must be free of all contaminants prior to application of sealer.
- Apply the product using a micro fibre mop to ensure an even coat is applied to the entire surface, make sure no product comes in contact with surrounding areas. Once the Pen Shield Ultra WB has had time to penetrate sufficiently (approx 30-60 minutes) use a micro fibre mop or cloth to remove any excess material. Do not stand in any wet sealer during this process as this may cause staining to occur.
- Apply one or two coats depending on the porosity of the concrete substrate, if two coats are required use the wet on wet application technique.
- Once the sealer has dried, preferably overnight, buff or polish to ensure any residue left during application is removed.
- Clean all tools with water.

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## PRECAUTIONS

- Do not apply Pen Shield Ultra WB over previously coated surfaces.
- Drying times will be extended in cold conditions (product cures through evaporation of water).
- Pen Shield Ultra WB can be applied to damp surfaces.
- Protect surrounding areas from over spray, buildings, plants, drains etc.
- Wear suitable protective equipment, wear respirator, gloves, protective clothing, safety goggles.
- Protect sealed surface from moisture for a minimum of 6 hours.
- Avoid applying Pen Shield Ultra WB in windy conditions.
- Apply Pen Shield Ultra WB between 10°C - 35°C.

## STORAGE

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

## FIRE

Pen Shield Ultra WB is non-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 Ultra WB 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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