



# POOL SOLUTIONS

## Epoxy Coatings

## ProShield Floor Epoxy Coat Datasheet

Semi-gloss water based epoxy

### 1-3 Layers

#### Step 3

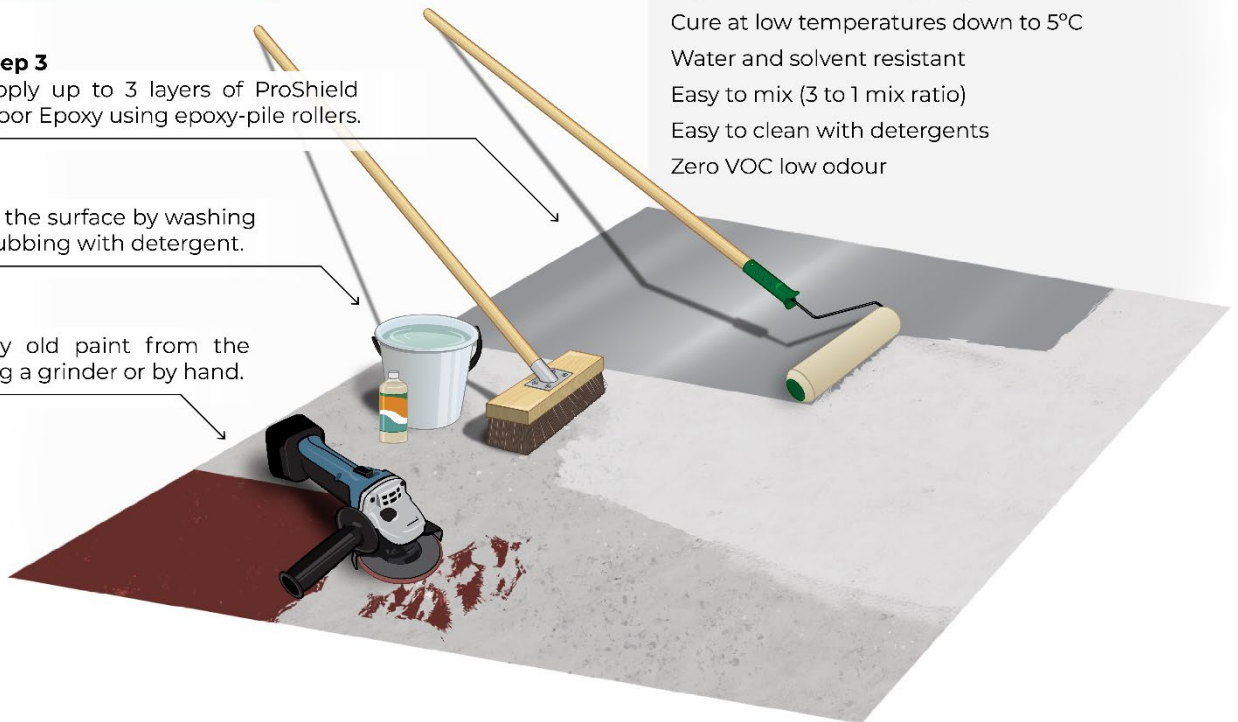
Apply up to 3 layers of ProShield Floor Epoxy using epoxy-pile rollers.

#### Step 2

Prepare the surface by washing and scrubbing with detergent.

#### Step 1

Remove any old paint from the surface using a grinder or by hand.



Hot tyre resistant after 24 hours  
High adhesion to damp, oily concrete  
Cure at low temperatures down to 5°C  
Water and solvent resistant  
Easy to mix (3 to 1 mix ratio)  
Easy to clean with detergents  
Zero VOC low odour

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# ProShield

## Epoxy Floor Coat

### Product Description

A water-based two-part epoxy solution for indoor use e.g. garage floors, storage facilities, light industrial workshops or normal residence indoor floors. The coating cures to a semi-gloss finish.

ProShield Floor Epoxy Coat is a resilient water-based epoxy. It is a unique polymeric emulsion and as a result, provides superior performance over other water-based epoxy formulations in a wide range of applications. The product's unique compatibility with water as a thinning agent presents it as a user-friendly product that is easy to apply, low in odour and eco-friendly with zero VOC components.



The coating offers high adhesion even to damp, oily concrete up to 235psi. Bond strengths up to 500 psi on dry/clean concrete are achieved with a typical bond failure in the concrete substrate.

ProShield coatings are suitable for solvent-sensitive areas and can be cleaned repeatedly with water and detergents or strong solvents without loss of gloss or hardness.

### Performance Advantages

- Cures at Low temperatures down to 5°C at 85% humidity
- Hot Tire Pick Resistance after 24 hours for light vehicles; 3 days for heavy traffic
- Water and solvent resistant
- 6-8 hours to touch-dry depending on temperatures
- Suitable for 1 to 3 layer applications

## Handling Characteristics

- Zero VOC system
- Benzyl Alcohol free
- Low odour and non-flammable
- 2-3 hours pot life
- Typical cure schedule: 1 to 3 days
- Mix ratio by volume: 3:1
- Environmental friendly and easy cleaning with water

## Surface Preparation

Prepare the surface by washing and scrubbing with a detergent like iKLeen7 (Available from Pool Solutions) or any floor detergent available from hardware stores.

For very smooth and denser substrates e.g. steel-floated cement floors, increase wetting and bonding properties by means of mechanical abrasive methods.

## Mixing Part-A and Part-B

The product is normally supplied in 4L sets of Part A and Part B. Larger packaging is available for large projects.

If the contents of the supplied containers are not to be fully utilised per mix phase by adding the two container contents together, always stir the **Epoxy Part-A** separately before mixing. After thoroughly stirring Part A, measure out the correct quantities of Part-A and Part-B (3 x Part-A to 1 x Part-B by volume) into a separate mixing container and mix thoroughly.

Measure correct quantity in litres of the Part A and Part B components into a separate mixing container. Alternatively the Part-B container can be emptied into the Part-A container and mixed thoroughly.

Use an electric drill fitted with a clean paint mixing tip to stir the mixed combination at slow-medium speed for 2-3 minutes.

## Application

Use a smoother short or medium pile type roller mounted on extension poles for easier application. A brush can be used to apply on rough and uneven surfaces.

Water can be used during the project to clean up any wet epoxy where contamination may have occurred and to clean the paint mixing tip. Do not use a contaminated mixing tip between different components.

Keep an eye on the surface coated after completion for 30 minutes to detect any air bubbles that may appear in the coating. Roll over or flat with a brush while the coating is still wet to remove any bubbles forming.

For a thicker application to extend lifespan, a second or third coat can be applied on the previous coating while still damp/tacky typically after 3hours.

## Return to use (at 20-25°C)

The following is a guideline for safe return to use times:

- Allow 12 hours of drying before entering by foot
- One day for light vehicle traffic
- Three days for heavier traffic.

Increase times during lower temperature conditions.

## Typical expected spread-rates:

- Smooth high density cement floors: 6-8m<sup>2</sup> per litre on first layer
- High absorption, high energy cement/concrete: 3-4m<sup>2</sup> per litre on first layer
- Second and third layers may be applied as soon as first coating reaches stickiness

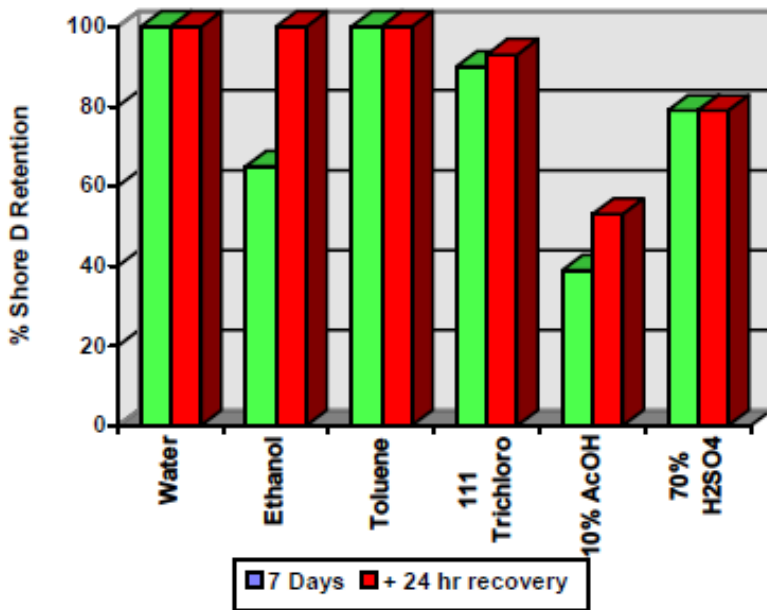
## Dilution with water

If required to reduce the viscosity of the product after long storage or cold conditions or to obtain a thinner coating thickness with increased coverage, water can be added to the Part A component, or to the mixed components: add 200ml water at a time and mix thoroughly with electric drill and proper mixing tip to full emulsification at a time . Up to 1L water can added step-wise to a 4L set.

## Hardening schedule (25 degree Celcius)

- 45% of hardening and hot-tyre resistance are achieved after 1 day,
- 80% after 3 days,
- 92% after 7 days
- Full hardness after 28 days

## Chemical Resistance



Test results indicate the coating has good resistance to water and solvents such as toluene and 111 trichloroethane. The initial exposure to ethanol showed a marked softening of the floor, due to absorbed solvent. However, following a 24 hour recovery period, when the solvent has been allowed to evaporate, the hardness of the floor system recovers to original Shore D value (82). Tests performed in the market also indicate excellent resistance to petrol, diesel, oils and brake fluid. The coating exhibits inferior resistance to organic and mineral acids and is as such not recommended for application in areas where prolonged exposure to acids is an important performance criteria.