



Since 2009

PU AQUA SHIELD Shield 402



It's Our Business to Protect Your Structure.

Advantages of Shield 402

- The Film of Shield 402 is twice as strong as **the durability high**.
- A **Safeguard** of water seepage.
- It has significantly **higher elongation**
- It has unique fiber reinforcement, Crack bridging up to **1.5mm**.
- Better easy to **clean** dust, dirt streaks and bird droppings.
- Looking fresh for a **longer period of time**.
- The Shield-402 has excellent **CO2 diffusion** resistance.
- Prevents the **corrosion of rebar** within the concrete matrix, leading to superior structural protection.
- Provides superior anti fading properties resulting longer shade durability.
- Shield-402 provides excellent **resistance to growth of algae** and fungi on the walls.
- Shield-402 will shining year after year because it uses Shine Stay Technology.
- **Low VOCs**, environmentally friendly and low odor.
- Specially the white color has 80% above **SRI index**.

Warranty:

- Shield-402 comes with **10-year waterproofing** and performance, warranty when applied with Concrete Gum-Shield.

Technical Data-sheet

Description:

PU Aqua Shield Paint is a lamination exterior waterproof paint. This is formulated with PU technology and pure acrylics latex based on core shell modified silicone. Its is specially manufactured with anti-carbonation properties, provide long lasting durability and lamination effect in severest climatic conditions.

Recommended Uses:

Waterproofing protection for ...

- ◆ Roof top surface.
- ◆ Planter boxes, canopies.
- ◆ External walls Painting.
- ◆ Floor Painting.

How to Apply:

- ◆ Substrates must be sound and level,
- ◆ The surface free from protrusions, large pores, honeycombs, large gaping cracks, and ridges,
- ◆ Concrete substrates should be cured fully before Paint SHIELD-402/SHIELD-403 application.

Surface Preparation:

All substrates must be sound and free from dust, excess mortar, oil or other loose particles. Cracks or honeycombs shall be repaired using Shield Con Sealant and Shield Concrete Gum.

PU Aqua Shield Pre Steps:

- ⇒ Plaster/Smooth Concrete Surface: New masonry surfaces must be allowed to cure completely. It is recommended to allow 28 days as the curing time for new masonry surfaces.
- ⇒ Cleaning: The wall surface should be free from any loose paint, dust or grease. Growths of fungus, algae or moss should be removed by wire brushing and water and for the floor cleaning using Diamond cup Grinding Machine.
- ⇒ Filling For Cracks: For filling cracks up to 2mm use Shield-302 Crack Seal or Shield Con Sealant specially at the roof top surface.
- ⇒ Primer Coat: Must use for 10 years performance a Concrete Gum Shield (Shield 302) or a Shield Base Coat (Shield 303).



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Recommended Coverage:

1. Area 40 SFT per 1.0 Litre.

Curing:

- For maximum protection, allow 06 to 12 hours curing time after second coat.

Tensile Strength:

1.4 MPa

Elongation:

- ◆ 80-100%

Packaging:

1. 1 gallon.
2. 10 liters.
3. 18 liters.

Shelf Life:

12 months when properly stored.

Storage:

Store under cover, in dry and cool place with temperature not accessing +35°C. Protect from freezing.

Application Temperature:

5 °C – 40 °C

For Best Performance:

- ◆ Do not apply at temperatures below 4° above 45°.
- ◆ Do not dilute with water or fresh mortar to Shield-402.
- ◆ Do not use additives of any kind.
- ◆ Proper application is the responsibility of the user.

Application Process:

PU Aqua Shield is a super waterproof shine paint. The application must be done with two coats. After a Shield Base Coat, we can apply 1st coat of paint. Do not mix water more than 25% in it. The 2nd coat in a direction perpendicular to the 1st coat. Leave the 1st coat to set between 1 to 3 hours before applying the 2nd coat.

Health & Safety Precautions

- ◆ Avoid contact with skin and eyes. Any splashes to the skin or eyes should be washed off with clean water.
- ◆ Wear protective gloves and eye protection when applied.

Test Data

<u>Property</u>	<u>Results</u>
01. Adhesion to Concrete	1.5 Mpa
02. Tensile Strength	1.4 Mpa
03. Elongation	80-100%
04. Water Absorption	0%
05. Waterproofing	Pass: Resisted 20 ft
06. Crack Bridging,	1-1.5mm

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.



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