

Technical Data Sheet

HR AQUA SHIELD

Polyurethane-Based Waterproofing Coating (Blue)



Product Description

HR AQUA SHIELD is a high-performance, single-component polyurethane-based waterproofing coating designed to form a seamless, flexible, and durable membrane. It provides excellent resistance to water ingress, weathering, UV exposure, and mild chemicals. The cured film bridges cracks and accommodates structural movement, making it ideal for long-term waterproofing applications.

Product Type

- Polyurethane (PU) Waterproofing Coating
- Cold-applied, ready-to-use
- Elastomeric, seamless membrane

Color

- Blue

Areas of Application

- Concrete roofs and terraces
- Podiums and balconies
- Water tanks (external side only)
- Basements and retaining walls (positive side)
- Bathrooms and wet areas (before screed/tiles)
- Metal roofs and asbestos sheets
- Sunshades and parapet walls

Key Features & Benefits

- Excellent waterproofing performance
- High elasticity and crack-bridging ability
- UV and weather resistant
- Strong adhesion to concrete, metal, and masonry
- Seamless and joint-free membrane
- Easy brush, roller, or spray application
- Long service life



Technical Properties

Property	Result
Base	Polyurethane
Appearance	Smooth liquid
Color	Blue
Density	1.30 ± 0.05 kg/L
Solid Content	≥ 90%
Elongation at Break	> 400%
Tensile Strength	≥ 2.0 N/mm ²
Crack Bridging Ability	Excellent
Shore A Hardness	60–70



Drying Time (Touch Dry)	4–6 hours
Recoating Time	8–12 hours
Full Cure	5–7 days
Water Resistance	Excellent
UV Resistance	Very good

Coverage

- 1.2 – 1.5 kg/m² for two coats
(depending on surface porosity and application method)

Surface Preparation

- Surface must be clean, dry, and sound
- Remove dust, oil, grease, laitance, and loose particles
- Repair cracks, honeycombs, and joints with suitable repair mortar
- Moisture content of concrete should be below 5%
- Apply compatible PU or epoxy primer if required

Method of Application

1. Ensure proper surface preparation
2. Apply primer (if specified) and allow it to dry
3. Apply first coat of HR AQUA SHIELD by brush/roller/spray
4. Allow drying for 8–12 hours
5. Apply second coat perpendicular to the first
6. Allow full curing before water exposure



Recommended Thickness

- Dry Film Thickness (DFT): 1.2 – 1.5 mm (total system)

Packaging

- 5 kg pail
- 10 kg pail
- 20 kg drum

Storage & Shelf Life

- Store in cool, dry place away from direct sunlight
- Shelf life: 12 months from date of manufacture (unopened)

Health & Safety

- Use gloves and protective clothing during application
- Ensure adequate ventilation
- Avoid contact with skin and eyes
- Keep out of reach of children

Disclaimer

The information provided is based on laboratory testing and practical experience. Performance may vary depending on site conditions, surface preparation, and application method. Users should conduct site trials before full application.

