

Jubiguard DURASHIELD HDPE

ADVANCED MEMBRANE. ASSURED PROTECTION.

JUBIGUARD DURASHIELD HDPE is a fully bonded, multi-layer waterproofing membrane made from high-density polyethylene (HDPE). It features a composite structure with a self-adhesive polymer layer and a sand-coated top surface for strong adhesion to freshly poured concrete. Designed for below-ground and blind-side waterproofing, it can be applied over concrete blinding or compacted sand-stone cushions. Manufactured using eco-friendly technology, it offers a reliable, high-performance alternative to imported materials.



Typical Application

- **Basement Raft Waterproofing:** Provides a durable barrier against water ingress in below-grade concrete slabs and foundations.
- **Footing Foundation Protection:** Shields structural footings from moisture, chemical attack, and aggressive ground conditions.
- **Infrastructure Waterproofing:** Suitable for large-scale projects such as metro tunnels, station platforms, and other transit systems.
- **Subsurface Contaminant Shielding:** Prevents ingress of underground gases like methane, coal gas, and alkalis, preserving structural integrity.
- **Roof Garden Underlayer:** Acts as a waterproofing base layer beneath landscaped roof systems.
- **Blind-Side Waterproofing:** Ideal for confined or inaccessible surfaces requiring permanent waterproofing.



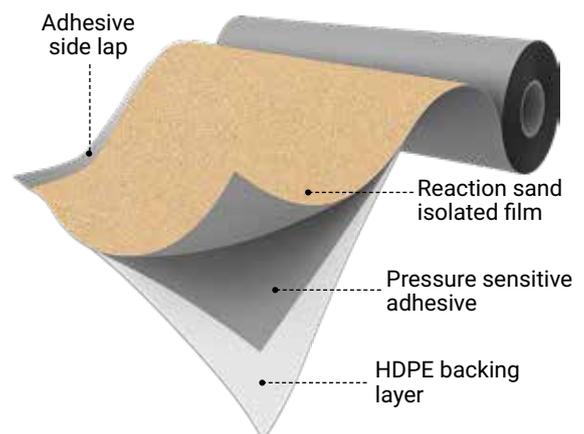
Technical Information

Properties	Typical Values	Test Standards
Membrane Thickness	1.2 mm	-
Low temperature cold flexibility (°C)	≤-25	ASTM D-1970
Tensile Strength, MPa	>25	ASTM D-412 modified
Elongation at Break (%)	>400	ASTM D-412 modified
Tear Strength, MPa	>20	ASTM D-5142 modified
Puncture Resistance (N)	1000	ASTM E-154
Hydrostatic Pressure @ 5 bar (50m)	No Leakage	BS EN 12390 (Part 8)
Peel Adhesion to Concrete (N/mm)	1.0	ASTM D-903 modified
Water Tightness	No water penetration through upper filter paper	

All values given are subject to 8-15% Tolerance.

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Pack Sizes

Size: 20 m x 1.2 m (L x W)
Thickness: 1.2 mm, 1.5 mm



Features



Quick and Easy Installation

No primer or fillet needed; ideal for confined spaces and permanent formwork.



Fully Bonded Seal

Permanently bonds to concrete, stops water migration.



Durable Bonding Strength

Strong, Long-Lasting Bond with concrete over time.



High Waterproof Performance

Complete barrier against water, moisture, and gases.



Durable & Puncture-Resistant

Tough membrane resists installation damage.



Eco-Friendly & Cost-Efficient

Speeds up project timelines and lowers overall waterproofing costs.



Flexible & Crack-Resistant

Adapts to structural movement, maintaining waterproof integrity.



Chemical & Ground Water Resistant

Withstands harsh ground water & chemical exposure.



Solar Reflective

White surface lowers heat absorption for better temperature control.



Product Specification

- **Nominal roll length:** 20 m
- **Nominal roll width:** 1.2 m
- **Nominal thickness:** 1.2 mm, 1.5 mm



Shelf life



Best before 12 months

from the date of manufacture for optimal performance.

- Store rolls **vertically** in a covered, dry area.
- **Avoid exposure** to direct sunlight, UV rays, and heat sources.
- Prolonged exposure to sunlight or UV may **degrade product quality**.
- **Do not double-stack pallets** to prevent damage.



Health & Safety

- JUBIGUARD DURASHIELD HDPE is safe, non-toxic, and eco-friendly and presents no health hazard. As with all chemicals, caution should always be exercised.
- Use protective clothing such as rubber hand gloves & safety goggles, while using JUBIGUARD DURASHIELD HDPE.
- In case of contact with skin, wash with plenty of water.



Method of Application

Substrate Preparation



Ensure the substrate is sound, solid, and free of gaps or voids larger than 12 mm. The surface should be smooth and uniform, without sharp aggregates or irregularities. Standing water must be removed, but the surface does not need to be completely dry.

Membrane Placement



Unroll the membrane over the prepared PCC or concrete blinding. Align it properly with the sand-coated (adhesive) side facing upward. Avoid curved or rounded surfaces for optimal bonding.

Edge & Corner Treatment



For edge and corner treatment, especially at raft corners or vertical transitions, use a hot air gun to fold edges neatly, or use pre-molded corner pieces for complex junctions. When joining and overlapping sheets, ensure a minimum overlap of 100 mm and use a steel roller to press and bond firmly; in cold weather, pre-heat the edges with a hot air gun for better adhesion. For vertical applications like blind-side waterproofing, apply the membrane over a uniform surface such as guniting, concrete, or plywood to ensure proper bonding. After installation, place and secure reinforcement, then pour concrete carefully over the membrane to ensure full bonding and waterproofing integrity.



Precautions & Limitations

- Recommended dosage to be followed to achieve desired results.

