

HOMESURE wSHIELD PU FLEXI GUARD

Premium Water-Based Polyurethane Membrane

WALPLAST HOMESURE wSHIELD PU FLEXI GUARD is a high-performance, single-component polyurethane hybrid membrane that provides superior waterproofing and weatherproofing. This eco-friendly, water-based, flexible membrane is designed for use in roofing, basements, shower recesses, and other waterproofing applications. It offers exceptional UV stability, crack-bridging properties, and long-term durability without embrittling or cracking over time.

STANDARDS & COMPLIANCE

wSHIELD PU FLEXI GUARD meets **Class III** international waterproofing building code standards, ensuring compliance with global best practices in waterproofing.

KEY FEATURES & BENEFITS

- ✓ **Water-based** formula allows easy cleanup.
- ✓ **Highly flexible** Class III membrane (>450% elongation).
- ✓ **Eco-friendly, low odour** formulation for irritation-free application.
- ✓ **Fast drying** – recoat able within 3-5 hours at room temperature.
- ✓ **UV stable, non-yellowing** – ideal for external applications.
- ✓ **No reinforcement required** for optimal performance.
- ✓ **Excellent crack-bridging properties** (bridges cracks up to 2mm).
- ✓ **Reduces substrate temperature** by up to 8°C in peak summer.
- ✓ **Seamless and permanently flexible** for long-term durability.

RECOMMENDED APPLICATION AREAS

- ✚ Waterproofing of roofs, balconies, decks, basements, bathrooms, kitchens, and shower recesses.
- ✚ Ideal for repair and restoration of leaking roofs.
- ✚ Suitable for planter boxes, retaining walls, sewers, silos, and tunnels.
- ✚ Works effectively in sandwich panel construction.
- ✚ Used for protection against corrosion and efflorescence.

APPLICATION PROCEDURE

Surface Preparation:

- Ensure the surface is sound, clean, and free from dust, oil, grease, or curing compounds.
- Remove loosely adhered particles such as rust scale and cement smears using a wire brush.
- Treat any fungal growth with a proprietary fungicide.
- Allow the surface to fully dry before application.
- Fill any cracks and voids using a suitable mastic sealant.
- Ensure new concrete surfaces are fully cured for 6-8 weeks before waterproofing.

Priming:

- Prime all surfaces using wSHIELD PU FLEXI GUARD diluted with 20% water.
- Metal surfaces should be primed using a suitable water-based primer.
- Allow the primer to dry for 30-45 minutes at 20°C before applying wSHIELD PU FLEXI GUARD.

Method of Application:

- Apply the first coat using a brush, roller, or spray equipment.
- Allow to dry for 3-5 hours before applying the second coat at a 90° right angle to the first coat.
- Remove any trapped air bubbles to ensure maximum waterproofing.
- wSHIELD PU FLEXI GUARD should be applied to achieve a minimum dry film thickness (DFT) of 1.0 mm in 2 coats.
- For multi-coat applications, allow each coat to become touch-dry before applying the next.
- Allow 24 hours of curing at 20°C before applying tiles or protective coatings.
- For optimal performance, apply a third coat where required to compensate for substrate imperfections.

COVERAGE

- Smooth surfaces: 12-15 sq. ft. per kg in two coats
- Primer coverage: 40-60 sq. ft. per kg (in 20% dilution)
- Two coats ensure 1000 microns DFT

TECHNICAL SPECIFICATIONS

Appearance	: White thixotropic liquid
Solid content	: 60 ± 3%
Elongation at break	: > 400%
Density	: 1.30 ± 0.05 g/mL
Viscosity	: 30000 – 50000 cP
Tensile strength	: 0.80 ± 0.30 N/mm ²
Touch to dry	: 2 hours @ 30°C
Full cure time	: 7 days
Shore hardness	: 86 – 87
Crack bridging	: > 2 mm
Bond strength (on concrete surface)	: > 1.03 N/mm ²

SHELF LIFE & STORAGE INSTRUCTIONS

- ✚ 12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C
- ✚ Store in dry and well-ventilated place away from heat source or direct sunlight.

PACKAGING

1 kg, 5 kg, 10 kg, 20 kg pails & 50 kg, 200 kg barrels.

HEALTH & SAFETY INFORMATION

- ✓ Refer MSDS for information and advice on the safe handling, storage and disposal of chemical products.
- ✓ Use rubber hand gloves & safety goggles, while using product
- ✓ Avoid contact with skin/eyes and avoid swallowing. In case of contact with skin, wash with plenty of water.
- ✓ Ensure adequate ventilation and avoid inhalation of vapour
- ✓ Spillages of wSHIELD PU FLEXI GUARD can be removed with water. Do not use solvent to clean the contacted area.
- ✓ Keep out of reach of children