

TECHNICAL DATA SHEET

HOMESURE WSHIELD PU SEAL ONE-COMPONENT POLYURETHANE SEALANT

wSHIELD PU SEAL is a high-performance, one-component, medium-modulus polyurethane sealant that cures upon exposure to atmospheric humidity. It exhibits exceptional adhesion to a wide range of construction materials, including cement-based surfaces, brick, ceramic, glass, wood, galvanized and painted metal sheets, and various plastics. The formulation provides superior durability, weather resistance, and flexibility for long-lasting sealing applications.

KEY FEATURES & BENEFITS

- ✓ **Permanently elastic** for enhanced joint movement accommodation.
- ✓ **Paintable** with water-based and gloss paints.
- ✓ **Non-sagging, thixotropic formulation** for vertical and overhead applications.
- ✓ **Easy application** using a handgun, with excellent tooling properties.
- ✓ **No surface tackiness after curing** – prevents dirt pickup.
- ✓ **No shrinkage** for long-term performance.
- ✓ **Low VOC content** – conforms to LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.
- ✓ **Excellent chemical resistance** against most diluted acids and alkalis.
- ✓ Resistant to aging, weathering, and UV exposure.
- ✓ Service life exceeding 15 years

RECOMMENDED APPLICATION AREAS

- ✚ **Sealing Joints Around Windows & Doors** – Prevents air and water leakage.
- ✚ **Skirting Boards, Walls, & Ceilings** – Provides a seamless finish.
- ✚ **External & Internal Crack Filling** – Ensures long-lasting repairs.
- ✚ **Saw-Cut Joints in Concrete Roads & Factory Floors** – Enhances durability.
- ✚ **Expansion Joints in Concrete Structures** – Withstands thermal movements

COLOUR AVAILABILITY

Standard: **White & Grey** (Other colours available upon request)

APPLICATION PROCEDURE

Joint Preparation:

- Ensure the surface is clean, dry, and free from dust, grease, and contaminants.
- Degrease surfaces using an appropriate cleaner.
- Insert closed-cell polyethylene foam as a backer rod where applicable.

Application Instructions:

Surface Cleaning: Remove all loose material using a wire brush if necessary.

Crack Filling: Fill gaps and voids with a suitable mastic sealant.

Priming: Where required, apply a suitable primer before sealant application.

Sealant Application: Apply wSHIELD PU SEAL using a handgun and tool smoothly.

Curing: Allow the sealant to fully cure before exposure to moisture or movement.

Painting: If painting is required, wait for the recommended drying time.

JOINT SIZE SUITABILITY

Joint Width: 6 mm to 20 mm (Single Application).

Joint Depth: Minimum 10 mm on porous substrates, 6 mm on non-porous substrates.

Width-to-Depth Ratio: 1:1 within above limits.

PACKAGING

HOMESURE wSHIELD PU SEAL is available in **600 ml sausage packs** for efficient application.

MOVEMENT ACCOMMODATION

Joint Type	Movement Capacity
Butt Joints	5% (Tension & Compression)
Lap Joints	10% (Shear Movement)

COVERAGE

Joint Size (mm)	Coverage / 600 ml (RMT)
6 × 6	45 - 52 feet (14-16 meters)
9 × 6	28 - 32 feet (9-10 meters)
12 × 6	18 - 23 feet (6-7 meters)
15 × 10	9 - 11.5 feet (3.0-3.5 meters)
25 × 12	5 feet (1.5 meters)

TECHNICAL SPECIFICATIONS

Skin Time (@ 20°C, 65% RH)	: 5 minutes
Application Temperature	: 5°C to 40°C
Service Temperature	: -10°C to 70°C
Cure Rate (@ 25°C, 65% RH)	: Dependent on sealant depth, ambient temperature, and humidity
Chemical Resistance	: Fair resistance to most diluted acids and alkalis. Poor resistance to organic solvents.
Service life	: 15 years
Paint ability	: Water-based paints: After 3 hours Gloss paints: After 12 hours

HEALTH & SAFETY INFORMATION

- ✓ Refer MSDS for information and advice on the safe handling, storage and disposal of chemical products.
- ✓ Use chemical resistant 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 Seal can be removed with water. Do not use solvent to clean the contacted area.
- ✓ Keep out of reach of children

SHELF LIFE & STORAGE INSTRUCTIONS

- ✚ 6 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.