

SMARTCARE UNYVERSEAL PU

SEALANTS & JOINT FILLERS

Single component polyurethane sealant.

PRODUCT DESCRIPTION

SmartCare® UnyverSeal PU is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant, resilient and has excellent recovery characteristics. It can function under a wide range of temperatures. SmartCare® UnyverSeal can be used in green and damp concrete applications.

KEY FEATURES

- **Efficiency and Ease of Use:** This product eliminates time, effort, and equipment for mixing, filling cartridges, and cleaning of equipment.
- **Tough and Flexible Consistency:** It cures to a tough, durable, flexible consistency with exceptional cut and tear-resistance.
- **Excellent Primerless Adhesion:** The sealant provides excellent adhesion and bonds to most construction materials without a primer.
- **Aging and Weathering Resistance:** It features excellent resistance to aging and weathering, ensuring long-term performance.
- **Climate Proven Performance:** The product has been proven in extreme climatic conditions, maintaining its integrity across various environments.
- **Green and Damp Concrete Application:** It can be applied to green concrete and to damp concrete, allowing for versatile job site application.
- **Non-Staining Property:** The formula is non-staining, protecting the appearance of the surrounding substrates.
- **Paintable Surface:** This sealant is paintable with water, oil, or rubber-based paints for a seamless finish.

- **High Movement Accommodation Factor:** It offers a movement accommodation factor (MAF) of $\pm 25\%$, allowing it to handle structural shifts.
- **Excellent Chemical Resistance:** The product provides excellent chemicals resistance, protecting the seal in harsh environments.

PRODUCT BENEFITS



Ready-to-use Efficiency



High Strength Bonding



Weather & Climate Proof



Exceptional Flexibility

PACKAGING

580 ml

Number of cartridges required = $\frac{\text{Joint width (mm)} \times \text{Sealant depth (mm)} \times \text{Joint length (m)}}{580 \text{ ml}}$

TECHNICAL PROPERTIES

Properties	Value
Colours	White, Beige, Grey, Black
Cure system	Moisture Cured PU
Specific gravity	1.23 - 1.25
Consistency	Smooth and pasty
Skin formation	~ 60 minutes
Curing rate	2-3 mm/24 hours
Movement capability	25%
Sag flow	0 mm, very good

Properties	Value
Service temperature	-40°C to +70°C
Tear strength	~ 6 N/mm
Shore A Hardness	~ 30 after 28 days
E- Modulus	~ 0.4 N/mm ² at 100% elongation
Elongation at break	> 500%
Elastic recovery	> 70%

APPLICATION AREAS

- Designed for all types of joints in construction or civil applications. Such as superstructures, subways, precast concrete, bridges, and balconies parapets, including joints that will be subject to intermittent or permanent water immersion, such as canal, culverts, and reservoir joints.
- Excellent for small joints and fillets, windows, door frames, flashing, common roofing detail applications, and many construction adhesives applications.
- Suitable for vertical and horizontal joints.
- Has many applications as an elastic adhesive between materials with dissimilar coefficients of expansion.

APPLICATION METHOD

- Recommended application temperatures: 5°-37°C SmartCare® UnyverSeal should be placed into the joint when the joint slot is at the mid-point of its designed expansion and contraction.
- Cut the end off the sachet and place it in the Asian Paints Berger sealant gun. Fit the nozzle and cut at a 45-degree angle to a suitable size for sealing the joint. Extrude the sealant firmly into the joint. Tool flush within 5 minutes of application to ensure good contact between the sealant and the substrate.
- Avoid air entrapment while placing the sealant. Tool & finish the sealant, ensuring full contact with joint edges and remove any air entrapment.
- The recommended joint dimension should be observed. Proper joint design is a 2:1 width-to-depth ratio.
- For trafficable horizontal joints, the absolute minimum depth of the sealant is 20mm, and closed-cell backer rod is recommended.

- For non-porous surfaces, solvent wiping of the joint edges is recommended.

PRODUCT LIMITATIONS

- Do not apply during rains or extreme temperatures.

STORAGE CONDITIONS

SmartCare UnyverSeal PU must be stored in a cool, dry place at temperatures strictly maintained between +10°C and +25°C. The product should be kept away from direct sunlight and any sources of heat. To prevent exposure to excessive heat trapped at higher levels, do not store the product within one meter of the roofing of the warehouse or storage building.

SHELF LIFE

The product has a shelf life of 9 months from the date of manufacturing. This is applicable only if the sealant remains in its original, unopened pack and is stored in dry conditions while being protected from direct sunlight within the recommended temperature range.

SAFETY PRECAUTIONS

- Always wear protective gloves, goggles, and clothing during mixing and application to prevent skin or eye irritation.
- Avoid direct contact with skin or eyes; in case of contact, wash the affected area with plenty of clean water.
- If inhaled, move the affected person to fresh air immediately and seek medical advice if discomfort persists.
- Ensure proper ventilation at the site of application to avoid inhalation of fumes.

CERTIFICATIONS

Not available

DISCLAIMER

The information provided in this Technical Data Sheet is based on laboratory tests, industry practices, and practical application experience. However, actual site conditions may vary and are beyond the manufacturer's control. Asian Paints makes no warranties, expressed or implied, and shall not be liable for any loss or damage resulting from improper usage, handling, or non-compliance with the recommended guidelines. Users are advised to test the product for suitability before full-scale application.