

SMARTCARE UNYVERSEAL ANTIFUNGAL

SEALANTS & JOINT FILLERS

All purpose acetic cure silicone sealant.

PRODUCT DESCRIPTION

SmartCare UnyverSeal Anti-Fungal is an all-purpose acetic cure silicone sealant which vulcanises on exposure to moisture in the air at room temperature, to produce a flexible elastomeric sealant. It is suitable for all common construction and glazing applications. It is easy to apply and offers excellent adhesion to a variety of nonporous substrates such as glass, glazed ceramic tiles and aluminium. It is resistant to ozone, ultraviolet radiation and temperature extremes.

KEY FEATURES

- **Antifungal for Wet Areas** : This product is antifungal to suit sanitary and wet area applications, preventing mold and mildew growth.
- **Room Temperature Curing** : The formula cures at room temperature at ambient humidity conditions, making it convenient for standard environments.
- **Outstanding Adhesiveness** : It provides outstanding adhesiveness to many non-porous substrates, including Glass, Glazed Ceramics, Aluminum, Masonry, and Some Plastics.
- **All Temperature Gun Ability** : This feature ensures all temperature gun ability, allowing the product to be applied in all temperatures.
- **Easy to Use One Component Type** : It is an easy to use one component type adhesive, simplifying the application process for the user.
- **Wide Service Temperature Range** : The product offers wide service temperature ranges from -20°C to 110°C, maintaining performance across thermal extremes.
- **Excellent Weathering & Environmental Resistance**: It features excellent resistance to weathering, moisture, Ozone, UV, and temperature extremes, ensuring long-term durability.

PRODUCT BENEFITS



Anti-fungal Properties



User-friendly Formula



Versatile Adhesion



All-weather Application

PACKAGING

280ml

TECHNICAL PROPERTIES

Properties	Value
Colours	Clear, Black, Cream, Grey, Aluminum, Beige, Brown
Cure system	Acetic
Specific gravity	0.95
Slump	Nil
Skin over time @ 25°C	10 minutes max.
Tack free time@ RT	30 minutes
Hardness, Shore A	14
Mechanical property	4mm thick sealant
Cure rate	4mm/day
Elastic recovery	>90% Approx.
Mechanical properties	2mm thick sealant-0.5
Tensile @100% elongation	1.20MPa Approx.
Elongation at break	Acetic

All values given are subject to 15 - 20%.

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

APPLICATION AREAS

- Demanding sanitary applications
- Structural attachment of many panel systems
- Panel stiffener applications
- Nonstructural glazing
- Weather sealing of most common construction materials including glass, aluminum, steel, painted metal, EIFS, granite and other stone, concrete, brick and plastics
- Metals
- Kitchen sink joints
- Glass & woods
- Sanitary joints

APPLICATION METHOD

1. Substrate quality and preparation:

Surface must be clean, dry and should be free from oil, grease, dust and frost.

Cure time

The time required for curing is affected by atmospheric conditions like relative humidity and temperature, degree of confinement and thickness of the sealant. The product cures at a rate of 3mm per day @ 25°C and a relative humidity of 50%. Less moisture content reduces the rate of cure. Curing time increases with thickness. The application in confined spaces generally lengthens the curing process. It is possible that in total confinement, the curing will not be complete, and this will result in the softening of the sealant in elevated temperatures. Metal-to-metal bonds should not overlap more than one inch. Every application involving confinement while curing must be thoroughly tested before commercialisation. Vinegar-like odour given off during curing is due to the acetic acid liberated as a part of the curing reaction, and it disappears as the curing progresses. Once the curing is complete, further odour will not be detectable.

2. Application:

- UnyverSeal Anti-Fungal is supplied as a ready-to-use product. The product can be used with normal caulking guns.
- After suitable joint preparation and masking, attach the nozzle to the cartridge, cut to the required dimension and the sealant is gunned into the gap continuously.
- The non-sag paste consistency of the material makes it very friendly to use, easy to tool with a spatula.
- The product cures at room temperature when it is exposed to moisture and the curing happens from the surface to the inside of the sealant. The skin formation happens within a maximum period of 10 minutes.
- Any necessary tooling has to be completed within 5 minutes of application. If masking tape is used to mark off the area, it has to be removed before the skin is formed. Install backing material or joint filler, setting blocks, spacer shims and tapes.
- Mask areas adjacent to joints to ensure neat sealant lines. Primer is generally not required on non-porous surfaces, but may be necessary for optimal sealing of certain porous surfaces.
- A test placement is always recommended. Apply UnyverSeal Antifungal Silicone Sealant in a continuous operation using positive pressure. (The sealant can be applied using many types of air-operated guns and most types of bulk dispensing equipment.)
- Before a skin forms (typically within 5 minutes), tool the sealant with light pressure to spread the sealant against the backing material and joint surfaces. Remove masking tape as soon as the bead is tooled.

PRODUCT LIMITATIONS

Do not apply during rains or extreme temperatures.

STORAGE CONDITIONS

Not available

SHELF LIFE

Not available

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.