SMARTCARE

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Smartcare Unyverseal GP Advanced

Premium Acetic cure Silicone Sealant

Description

SmartCare UnyverSeal GP ADVANCED is a premium acetic cure silicone sealant which vulcanizes 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 application. It is easy to apply and offers excellent adhesion to a variety of nonporous substrates such as glass, glazed ceramic tiles and aluminum. It is resistant to ozone, ultra-violet radiation and temperature extremes after cure.

Uses

- 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

Characteristics

- Easy to use one component type.
- Antifungal to suit sanitary and wet area applications.
- Cures at room temperature at ambient humidity conditions.
- Outstanding adhesiveness to many non-porous substrates, including Glass, Glazed Ceramics, Aluminum, Masonry, Some Plastics etc.
- All temperature gun ability – can be applied in all temperatures.
- Wide service temperature ranges from -20°C to 110°C
- Excellent resistance to weathering, moisture, Ozone, UV, temperature Extremes etc.

Colors Available

white

Packing

280 ml

Properties

Cure system	Acetic
Specific Gravity	0.96
Slump	Nil
Skin over time @ 25°C, Minutes max	10
Tack free time, minutes @ RT, Approx.	30
Hardness, Shore A	14
Application temperature, °C	5 to 40
Cure rate, mm/day	3
Elastic Recovery % Approx.	>90
Hardness	17
MECHANICAL PROPERTIES, 2mm thick sealant	
Tensile @100% elongation, MPa, Approx.	0.4
Tensile Strength, MPa, Approx.	2
Elongation at Break, % , Approx.	600

All values given are subject to 15 - 20%

Application Method

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 commercialization. Vinegar like odour given o- during curing is due to the acetic acid liberated as a part of curing reaction and it disappears as the curing progress. Once the curing is complete, further odour will not be detectable.

Application

- UnyverSeal GP Advanced 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 cartridge, cut to required dimension and the sealant is gunned into gap continuously.
- The non-sag paste consistency of the material makes it very friendly to use, easy to tool with spatula.
- The product cures at room temperature when it is exposed to moisture and the curing happens from surface to inside 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 in case masking tape is used to mark o- the area, it has to be removed before skin is formed. Install backing material or joint ller, 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 GP Advanced 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.

Value Base

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.

Health and safety

Direct contact with uncured sealant irritates eyes and may irritate skin. over exposure to vapor may irritate nose and throat.

Precautions

Do not apply during rains or extreme temperatures.

Safety features

- Kindly refer to the MSDS for SmartCare UnyverSeal GP Advanced which gives detailed information on safety measures while handling the paint, which is available on request.
- Store the container with the lid tightly closed in an upright position, in a cool, dry place Keep out of reach of children and away from eatables. May be harmful if swallowed.
- In case of ingestion seek immediate medical attention.
- Wear eye protection during application.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- In case of skin contact immediately wash skin with soap and plenty of water.
- Get medical attention if irritation develops or persists. It is recommended to wear suitable nose pad during sanding and surface preparation to avoid dust inhalation.
- In the event of spills, contain spillage using sand or earth. No added Lead, Mercury or Chromium compounds.
- Non flammable

Storage conditions/ Shelf life/ Handling precautions.

Direct contact with uncured sealant irritates eyes and may irritate the skin. Over exposure to vapor may irritate nose and throat. Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on hand. In case of eye contact, flush eyes with plenty of fresh water for 15 minutes and obtain medical attention. In case of skin contact, remove from skin and flush with water. Sealant liberates acetic acid on curing. Keep out of reach of children. Consult Material Safety Data Sheet (MSDS) to know more about handling and safe usage.

Store in cool dry place, not over 25°C away from direct sun light and source of heat. UnyverSeal GP ADVANCED has a shelf life of 12 months from the date of manufacturing if stored in original unopened container. In places where high heat and humidity are present, special precautions must be taken. Store product in a covered, well ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity condition may reduce shelf life by around 30 %. Follow First in First Out strictly. Cartons should always be stacked upright with nozzle tip pointing upwards. Don't stack cartons on their sides. Never stack cartons more than 8 high. Don't store within one meter of roofing of the ware house or storage building.

Note - The information and data contained in the product data sheet is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of the product for usage. Since the supplier cannot know all the uses, or the conditions of use to which the product may be exposed, no warranties concerning the fitness or suitability for particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application Likewise if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

Note: The information supplied in our literature or given by our employees is based on extensive experience and, together with that supplied by our agents or distributors, is given in good faith to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of work, we accept no liability for any loss or damage which may arise as a result thereof.

Version No. V03 04/22. Please note that this datasheet supersedes all previous versions UAE

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