

TECHNICAL DATA SHEET

SMART ADVANTAGES

- OVER PAINTABLE IN ONE HOUR
- FLEXIBLE
- PROVIDES A SMOOTH FINISH
- WATER BASED AND NON-TOXIC

DESCRIPTION

Uniwall Acrylic Sealant is a water based general-purpose, paintable sealant that is used for caulking, grouting, jointing and embedding in building construction. It is easy to apply and compatible with most materials used in construction e.g. concrete, wood, brick, natural and artificial stone, metal and sanitary-ware. Uniwall Acrylic Sealant is flexible and resists cracking, giving a smooth finish that is suitable for interior and exterior use. Uniwall Acrylic Sealant has a VOC of 138g/L, meeting the Green Building Council of South Africa 'African Green Star SA Office V1' specification of less than 250g/L.

APPLICATIONS

Uniwall Acrylic Sealant is ideal for sealing low movement joints, as a flexible crack filler before painting jobs, for sealing construction frameworks e.g. between window and door frames and walls. Also suitable as an adhesive for bonding.

ADHESION

Uniwall Acrylic Sealant exhibits good primerless adhesion to concrete, plaster, brick, stone, masonry, aluminium, glazed tiles, metals, painted surfaces, coated or uncoated wood and some plastics. If there is any uncertainty regarding the application, adhesion tests should be carried out.

LIMITATIONS

- Not to be used where high movement accommodations is needed.
- Not to be used on oily or bituminous substrates, rubber or materials that may bleed oils, plasticizers or solvents.
- Not recommended for use in floor joints, as a glass sealant, or joints subject to continuous water immersion.
- When using Uniwall Acrylic Sealant do not expose to water or rain for at least 24 hours.
- Will not adhere to some plastics such as polyethylene, polypropylene and Teflon.
- Not sandable.

SAFETY INSTRUCTIONS

Uniwall Acrylic Sealant is non-toxic. Avoid contact with eyes. In the event of skin or eye contact, rinse thoroughly and immediately with water. Seek medical assistance if irritation or discomfort persists. Keep out of reach of small children! Refer to our Safety Data Sheet for further toxicological information and comprehensive handling instructions.

SURFACE PREPARATION

Surfaces to be bonded must be clean, structurally sound, dry and free from dust, dirt, oil, rust and loose material. Non-porous substrates such as metals should be degreased with a solvent. Poor surface preparation may result in the delamination of the sealant. Gaps exceeding 5mm should be filled with backing material before application.

HOW TO USE

Ensure that surfaces are prepared as above.

1. 90ml tube: Remove the cap and pierce seal with reverse side of cap. Cut the nozzle to desired bead size and screw onto tube. Apply silicone at a slight angle in a continuous bead to the prepared joint. After use, remove the nozzle, wipe clear and replace the cap firmly.
2. 280ml cartridge: Cut the tip off the cartridge and screw the nozzle onto the cartridge. Cut the tip of the nozzle at an angle to achieve the desired bead size. Apply with a caulking gun in a continuous bead to the prepared joint.
3. Use masking tape to get a clean, even sealant line and to eliminate cleaning difficulties on porous surfaces. Be sure to remove the tape before sealant begins to skin.
4. Smooth down after application (within 20 minutes) before skin formation occurs, by using a flat or rounded tool, or even a finger, dipped in soapy water.
5. Leave for at least one hour before painting.

CLEANING

Remove excess acrylic sealant and clean tools immediately after application, using soapy water. Cured acrylic sealant can be removed mechanically i.e. with a sharp knife.

STORAGE STABILITY

Uniwall Acrylic Sealant has a shelf life of 12 months if stored in a safe, cool (below 25°C) and dry place in its original moisture-tight container. If the material is kept beyond the recommended shelf life, it is not necessarily unusable, but a check should be performed to observe whether the product is still workable. To maximize the shelf life of the opened cartridge, an airtight environment can be achieved by removing the nozzle and wiping down the opening, placing a piece of plastic over it, and finally screwing the nozzle back on. Store in a cool environment.

PRODUCT PACKAGING

- 450gm cartridge (approx. 300ml)

PRODUCT TECHNICAL DATA

Sr. No.	Test Parameter	Unit	Result
1.	Appearance	–	White homogenous non sag paste.
2.	Odour	–	Mild
3.	pH	–	7 to 8
4.	Specific Gravity Cured Sealant	–	1.9 (approx.)
5.	Density at 27°C Uncured Sealant	gcc	1.6 to 1.7
6.	Skin Formation Time (3MM Sheet)	Minutes	20 to 25
7.	Tack Free Time (3MM Sheet)	Minutes	35 to 40
8.	Cure Time (Hard Dry) (3MM Sheet)	Hours	72
9.	Total Solids	Percent	87/88%
10.	Tensile Strength	MPa	0.8
11.	Elongation Displacement	Percent	40 to 50%
		MM	10
12.	Adhesion Strength	MPa	
	a) Aluminum to glass		0.41
	b) Aluminum to concrete		0.14
	c) Wood to Wood		0.11
13.	Compatibility with Paint	–	0.11

TYPICAL PERFORMANCE DATA

Application temperature	Min. 5°C to Max. 35°C
Coverage	Approximately 10m (4 x 4 mm bead)
Service temperature range	-10 to 80°C

DISCLAIMER

The above information is only offered as a guide to the use of this product. Furthermore, users should satisfy themselves that it is suitable for their needs. Since we have no control over the conditions under which it is used, we cannot accept responsibility for the problems caused by the use and/or application of this product.