

Technical Data Sheet

WE-FIX GP PRO SILICONE SEALANT		
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Product Description

WE-FIX GP Pro is a single component 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.

Features and Performance

- Easy to use one component type.
- Fast curing
- Permanently elastic
- Very good unprimed adhesion
- Wide service temperature range from -200C to 1100C
- Cures at room temperature and ambient humidity conditions.
- Outstanding adhesiveness to many non-porous substrates including glass, glazed ceramics, aluminum, masonry etc.
- Excellent resistance to weathering moisture, ozone, UV, temperature extremes etc.

Applications

- General purpose sealing and bonding
- Gap filling
- Sealing of gaps between door and window frames
- Aluminum, steel, printed metal etc.



**SOUTHBOUND
INDUSTRIES PVT LTD**

Website : southboundindustries.com

Mudikkarayi, Kuruppampady
Rayamangalam PO
Ernakulam Dist.,
Kerala, India - 683 545

Telephone : +91 75599 99331
Email : info@southboundindustries.com
CIN : U23935KL2023PTC083445

Typical Properties

Cure system	: Acetic
Color	: Clear, White, Black, Grey
Specific Gravity	: 0.94 ± 0.02
Slump	: Nil
Skin over time @ 25oC (Minutes)	: ≈ 5
Tack free time @ 25oC (Minutes)	: ≈ 10
Application temperature, oC	: 5 to 40
Cure rate, mm/day	: ≈ 2
Hardness, Shore A	: 15 - 18
MECHANICAL PROPERTIES	
Tensile Strength, MPa, Approx.	: < 1.40
Elongation at Break, %, Approx.	: ≤ 900

Usage Instructions

WE-FIX GP Pro silicone sealant is a ready to use product, it can be used with normal caulking guns. Surface should be clean, dry sound and free from all contaminants i.e. Dust, rust, grease etc.. After suitable joint preparation and masking, Cut the nozzle at an angle and apply the sealant caulking air operated cartridge and give immediately to spread the sealant against all surfaces and give a smooth finish. 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 5 minutes. Any necessary tooling has to be completed within 5 minutes of application. If in case masking tape is used to mark the area, it has to be removed before skin is formed. Install backing material or joint filler, setting blocks, spacer shims and tapes. 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 C 2100 silicone sealant in a continuous operation using positive pressure. Before a skin forms (typically within 5 minutes), tool and spread the sealant with light pressure against the backing material and joint surfaces. Remove masking tape as soon as the bead is tooled.



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Cure time

The required cure time is affected by atmospheric conditions like relative humidity and temperature and thickness of the sealant. The product cures at approximate rate of 2.5mm per day @ 25oC and a relative humidity of 50%. Less moisture content reduces the rate of cure. Curing time increases with thickness. Vinegar like odour given off 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.

Caution

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.

Storage and Shelf Life

Store in cool dry place, not over 25oC away from direct sun light and source of heat. WE-FIX GP Pro silicone sealant 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 FIFO 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.

Packaging

WE-FIX GP Pro silicone sealant is available in standard caulking cartridges and 200 liter drum upon request.

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

Regd. Office Address : 13/454, Puthenparambil, Veeyapuram, Karthikappally, Alappuzha, Kerala - 690 514



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products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

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