

## Technical Data Sheet

| WE-FIX WEATHER SILICONE SEALANT |                |                    |
|---------------------------------|----------------|--------------------|
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### Product Description

WE-FIX Weather silicone sealant is a versatile neutral oxime architectural grade weather resistance silicone with greater durability. It is perfectly formulated for primer less adhesion to sealing joints in building facades, ACP and curtain walls. It has non – corrosive property 50% joint movement capability. It is an anti – fungal silicone which forms permanent bonding after curing. It has non corrosive property, odorless and resistant to UV & water.

### Features and Performance

- Easy to use one component type.
- Fast curing
- Excellent adhesion
- Excellent Antifungal and Anti-bacterial properties
- Excellent UV & Weather-Resistance.
- Non stain
- Non corrosive

### Applications

- Durable adhesion to range of porous and non-porous surfaces
- Sealing of expansion joints in concrete, brickwork and ACP panels etc.
- Sealing dynamically moving joints such as expansions and control joints.
- Concrete panel joints
- Weather Seal

### Typical Properties

|                                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| Cure system                     | : Neutral                                                |
| Color                           | : White, Black (Other colors are available upon request) |
| Specific Gravity                | : $1.28 \pm 0.02$                                        |
| Slump                           | : Nil                                                    |
| Skin over time @ 25°C (Minutes) | : $\approx 7$                                            |
| Tack free time @ 25°C (Minutes) | : $\approx 10$                                           |
| Application temperature, °C     | : 5 to 40                                                |
| Service Temperature             | : 40 to 250°C                                            |
| Cure rate, mm/day               | : 2.0 - 2.50 mm                                          |
| Hardness, Shore A               | : 31 - 36                                                |
| <b>MECHANICAL PROPERTIES</b>    |                                                          |
| Tensile Strength, MPa, Approx.  | : 1.50 - 1.70                                            |
| Elongation at Break, %, Approx. | : 700 - 800                                              |

### Usage Instructions

WE-FIX Weather 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 WE-FIX GP 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.

### 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 @ 25°C 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 25°C away from direct sun light and source of heat. WE-FIX Weather 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 Weather silicone sealant is available in standard caulking cartridges and 200 liter drum upon request.

**NOTE:** The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made. SBII reserves the right to change the properties of its products without notice.