

The logo for Dow Corning, featuring the text "DOW CORNING" in white, uppercase letters on a black rectangular background. Below this is a solid teal-colored rectangular bar.

Seellant Dow Corning CWS (Contractors Weatherproofing Sealant)

Here's why it's better to apply commercial sealant than any other low cost, non-durable brand sold in big-box stores (ex: Flextra, Supra etc.).

These sealants (Flextra, Supra and others) are applied during the installation of your doors and windows, but their durability is 3 to 7 years compared to the commercial process with an approved durability of 30 to 50 years which makes it a long-term investment and a most professional finish.

Use Dow Corning CWS Sealant

Specially designed to seal dynamic movement joints such as: Expansion joints, concrete wall joints, panel-lever joints, curtain wall joints, caulking of openings (windows, doors, panels, EIFS, mullion joints, panels and frames).

Description

Dow Corning CWS Sealant can be applied without a primer on most non-porous surfaces. Its unique sealing formula provides balanced adhesion, medium modulus of elasticity and high performance making it ideal for use in installations with stresses such as resistance to mold, mildew, dynamic movement, slip and deflection. Easily applied by spray gun at temperatures ranging from -29 to 49°C (-20 to 120°F). Laboratory approved commercial silicone for durability up to 50 years. Because it is used without mixing and at a lower ratio, it represents a high performance, economical alternative to other sealants and offers a movement capacity of \pm 40%.

Features

- Can be applied without a primer to most non-porous building materials.
- Balanced adhesion, medium modulus of elasticity and high performance.
- Easily spray applied in cold weather.

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Components

One-component, neutral curing, high performance, medium modulus of elasticity silicone sealant.

Dow Corning CWS is available in 20 standard colors (white, limestone, grey, window bronze, aluminum, antique white, coal, black, bronze, precast concrete white, off-white, ivory, chamois, mountain fog, anodized aluminum, sandalwood, geographic beige, redwood tan, light bronze) and 19 colors by special order. Custom colors also available.

How are silicones superior to polyurethanes?

1. Silicones offer excellent resistance to U.V. rays, whereas organic products (urethanes and polyurethanes) degrade when in contact with sunlight. The reason is simple: the energy released by UV rays is not strong enough to break the silicone-oxygen chemical bond that unites the elements of the silicone. The CC chemical bond used with organic matter is very unstable. Exposure to UV rays is therefore the main cause of sealant degradation.
2. Silicones remain flexible at all times: organic products harden in cold weather, which prevents them from adhering well, even if the adhesion appears good after a peel test. In fact, winter is the time of the year when it is most important to have a sealant that works well, since building materials shrink and joints expand under the effect of cold weather. It is precisely at this time of the year that organic products harden.
3. Silicones retain their physical properties year after year whereas organic products lose their flexibility over time.
4. Silicones can be applied at temperatures as low as -29°C and reach full cure without the use of a heat source whereas organic sealants must be heated to apply and do not cure when the temperature drops below freezing.
5. Dow Corning silicones do not sag under heat in the summer, whereas polyurethanes tend to sag as soon as it gets hot.

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6. Silicones dry to the touch in about 30 minutes compared to organic sealants which take 1 to 14 days to dry, allowing dirt to stick to them and remain permanently embedded. Any dirt deposited on the surface of the silicone is actually a kind of flexible glass.
7. As organic sealants degrade, they crack, fissure, split, powdered. Dirt can therefore easily get into the cracks. Joints and surfaces treated with silicone do not degrade.
8. Because silicones are actually a derivative of glass, they are designed to last for up to 50 years. Just as you don't expect a glass panel to melt after 20 or 30 years, the same is true for silicone. Organic sealants begin to degrade after 3 to 7 years. On surfaces most exposed to Dow Corning CWS (Contractors Weatherproofing Sealant) 3 rays of the sun, such as the south side of buildings, they degrade even faster. Urethane can be compared to paint in terms of weathering.
9. Dow Corning CWS and 795 Sealants have a low odour during cure and no odour when dry. They are therefore approved for domestic use without any health hazard.
10. 10. We keep several colors of all our products in stock. CWS alone has 35 colours available. We also offer custom colors (minimum quantity required) with a delivery time of 1 to 2 weeks.
11. All Dow Corning construction silicones have a low VOC content (less than 50 g/l) and are LEED compliant.
12. Only silicones qualify as construction sealants for LEED sustainable development accreditation.
13. The information described above applies to Dow Corning silicones. Not all silicones are the same. Silicone/organic hybrid products have demonstrated the same degradation and failure rate as organic products. So-called "siliconized" products are not silicones (they build on the reputation of silicone quality, but the liquid silicone used offers poor performance).
14. Dow Corning silicones are often used in joint repair to replace defective urethane gaskets.

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15. Formulations of urethanes and polyurethanes have had to be significantly modified since 2009 to comply with the new guidelines on the VOC content of chemicals used. In addition, several chemicals used in sealant production have changed (due to stricter environmental standards) or have been discontinued (recession in the United States and tsunami in Japan). Dow Corning operates on a model of full vertical integration for many of its products. Due to their inherent low VOC content, formulas for common silicone sealants have not changed in decades. It may seem odd to have a formula that has not changed in years, but in a market where profit margins are low and competition has significantly lowered the price of sealants, Dow Corning's products remain a proven, undiluted option.