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Structural Sealants



DOWSIL™
silicones by **DOW**

Imagine enhancing productivity, improving reliability and minimizing stress with advanced silicone adhesives and sealants.

Dow Performance Silicones describe the history and evolution of silicone technology, which generated a legacy of innovative and reliable products under the Dow Corning label for more than seven decades. Today that legacy continues under the DOWSIL® brand name, which encompasses more than 7,000 proven silicone products and services.

a.b.e.® Construction Chemicals is the sole distributor of Dowsil® sealants in South Africa.

Sealing high movement construction and expansion joints

To control random cracking and handle expansion and contraction of a concrete slab due to temperature changes construction or expansion joints are used.



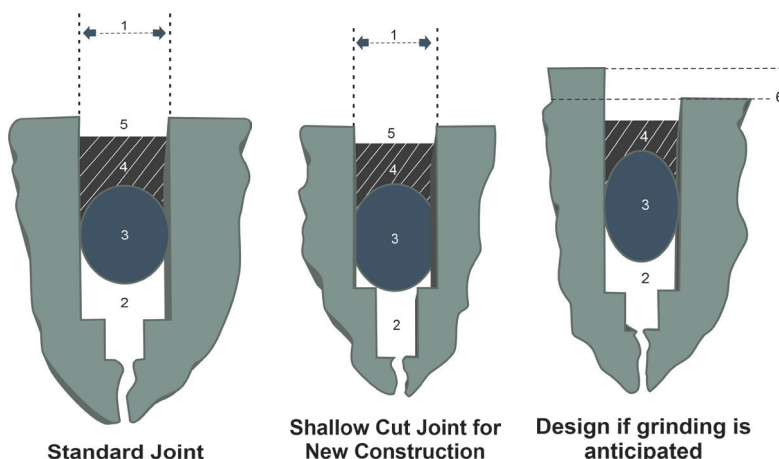
Preparing joint



Placing the backing cord



Applying the sealant



Standard Joint

Shallow Cut Joint for New Construction

Design if grinding is anticipated

Application

1. Joint width wide enough to accommodate movement (1).
2. Joint depth needs to be accommodated for correct joint design (2; 3; 4; 5).
3. Proper backing cord placement to prevent three-sided adhesion (3).
4. Sealant installed to proper depth and width (4).
5. Sealant recessed from a minimum of 9 mm to 13 mm and below pavement surface. See product data sheet for details (5).
6. Depth of lowest slab determines the amount of recess required if grinding is anticipated (6).

SILICONES, SEALANTS & ADHESIVES PRODUCT SELECTOR

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Pavement, Road and Bridge Sealant Projects

Dowsil® 888

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Seals irregular surfaces, fuel resistant, UV stable

Dowsil® 888 is a one part silicone joint sealant for concrete joints.

Advantages:

Not flowable, must be gunned into irregular joint widths and requires tooling.
High movement capability 100% extension and 50% compression. Low modulus.
Weather and UV resistant.
Can be used on vertical and horizontal surfaces.



Battery Park, Cape Town

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Dowsil® 890 SL

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Seals irregular surfaces, fuel resistant, self-levelling

Dowsil® 890-SL is a one part self-levelling silicone joint sealant for concrete and concrete to asphalt joints that seals irregular surfaces and is fuel resistant.

Advantages:

Self-levelling, ease of application.
Flows into irregular joint widths and does not require tooling.
High movement capability, 100% extension and 50% compression. Ultra-low modulus.
Weather and UV resistant.



Sanral N2 Umhloti, KZN

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Dowsil® 902 RCS

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Rapid-cure, self-levelling, two-part silicone rubber sealant designed to seal expansion joints

Dowsil® 902 RCS is a self-levelling, cold applied, rapid cure, two part, joint sealant designed to seal expansion joints that experience both thermal and/or vertical movements due to traffic loading.
(Made to order, with lead time).

Advantages:

Rapid cure, open to traffic within an hour of application - develops sufficient integrity within 8 hours to accommodate movements associated with bridges.
Self-levelling, requires special applicator gun.
High movement capability, 100% extension and 50% compression. Ultra-low modulus.
Flows into irregular joint widths and does not require tooling.
Fully elastic, bonds to itself.
Weather and UV resistant.



Gautrain Viaduct, JHB

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Seal the Deal

Reputation, reliability and safety. These are "words to succeed by" in the professional building trades. To build that success, you need high quality, durable materials with proven performance in tough conditions. Bring the best adhesives and sealants to the job site for waterproofing, sealing, bonding, adhering, gap filling, window installation and glazing, fire protection and improved aesthetics.

We strive to innovate the advanced materials to help you gain longer lifecycles, prevent breakdowns and ensure long-term reliability and performance.

Contact us today and get a quote.

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