

Quicktop Crack Sealer

Low viscosity MMA crack sealer



Description

Quicktop Crack Sealer is a 100% reactive ultra-low viscous, two-component methyl methacrylate resin specially designed for use as a penetrating crack sealer or to fortify extremely porous concrete substrates.

The very low viscosity and low surface tension of Quicktop Crack Sealer allows it to easily penetrate and fill deep cracks in existing concrete. The mixed product is poured directly into the cracks or fed by gravity injection directly into the crack whereby the capillary action draws the product deep into the substrate and both fills and heals the crack restoring strength and performance.

Applications

Quicktop Crack Sealer is designed for crack sealing and filling in multiple types of concrete structures such as:

- ▲ Parking garages.
- ▲ Factory and industrial floors.
- ▲ Concrete bridge decks.
- ▲ Aircraft runways, hangars and aprons.
- ▲ Precast concrete elements.
- ▲ Premature cracking in new concrete.
- ▲ PQC pavement.

Advantages

- ▲ Very low viscosity, for excellent absorption into concrete.
- ▲ Fast cure time, for rapid recoat and return to service.
- ▲ Fills and bonds cracks.
- ▲ Easy application.
- ▲ Low VOC content.
- ▲ Protects against water penetration.
- ▲ May be used over a wide temperature range.

Method of Use

Surface preparation

The substrate should be sound, clean and free from dirt, wax, curing agents and any contamination. Surface laitance should be removed by grit blasting or water jetting.

Technical Properties:

Colour:	Clear
Density:	0.99 ± 0.02 g/cm ³
Viscosity: Brookfield	10 Cps @ 23°C
Shore D Hardness ASTM D2240	> 80
Tensile strength: ASTM D638	55 ± 5 MPa
Elongation at break: ASTM D638	5 ± 1%
Compressive strength @ 24 hrs: ASTM C3986	86 ± 5 MPa
Flexural strength:	82 ± 5 MPa
Water absorption: ASTM D570	0.75 - 0.8% / 24 hr
VOC:	< 50 g/ltr (comply with LEED)

Quicktop Crack Sealer should not be installed on fresh concrete until maximum shrinkage has occurred (at least 30 days after placement).

Mixing

Quicktop Crack Sealer consists of two components, a resin and powder hardener. The quantity of hardener has to be adjusted to the substrate temperature (see table).

At temperatures below 5°C, Quicktop Crack Sealer Accelerator need to be used, consult DCP Technical department for the proper amount of accelerator to be used.

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Pot life / Hardening

The potlife time and curing of Quicktop Crack Sealer are dependent on temperature and the quantity of hardener.

Temperature (°C)*	Hardener (%pbw)**	Pot Life (min)***	Hardening time (min)
5 - 10	5.0	≈ 15	≈ 60
10 - 15	4.0	≈ 12 - 16	≈ 45 - 50
15 - 20	3.0	≈ 15 - 20	≈ 45 - 50
20 - 25	2.0	≈ 15 - 20	≈ 45 - 50
25 - 30	1.0	≈ 20 - 25	≈ 45 - 50
30 - 40	1.0	≈ 5 - 10	≈ 30 - 35
+40	1.0	≈ 5 - 10	≈ 25 - 30

Notes:

* Temperature statements refer to resin-, floor- and air-temperature.

**Do not use less than 1% hardener percentage, unless it is confirmed at site.

*** The indication of the approximate pot life always refers to the lower temperature.

Application

General Installation Instructions for Crack Sealing

Cracks must be clean and dry. Clean out cracks with oil-free compressed air. A hot lance may be used and provides excellent preparation however maximum substrate temperature at application must be observed.

Quicktop Crack Sealer should be fed directly into the cracks one by one along their entire length until completely full and rejection of more product. Varying techniques can be applied for an acceptable result.

Agricultural syringes can be loaded and used to dispense directly into small cracks, the mixed product can be poured directly into larger cracks from an acceptable container. Creating a temporary dam from low quality sealant along the sides of the crack can assist with direct pouring. The caulking is later removed.

Overflows onto the surface are sometimes inevitable and will only result in fortifying the area adjacent the crack

General Installation Instructions for surface Treatment

If the pavement surface is to be sealed, it should be lightly (brush blast) shot blasted to remove laitance and expose surface cracks.

Inspect the underside of elevated decks for evidence of full depth cracking that may require additional treatment to prevent draining of the resin.

Cracks greater than 3 mm width should be repaired individually prior to application of flood coat. Fill cracks larger than 3 mm with loose sand and pour small quantity of mixed Quicktop Crack Sealer into the crack and spread with a paint brush, allow curing before applying flood coat.

Quicktop Crack Sealer is spread evenly on the surface as a flood coat with a squeegee or rollers and allowed to absorb completely into the concrete substrate. Do not allow to form puddles.

Notes:

- ▲ Always prepare the proper amount of materials to be applied to the working area.
- ▲ Freshly applied Quicktop Crack Sealer must be protected from damp, condensation and water for at least 1 hour.

Cleaning

All tools should be cleaned immediately using DCP Solvent, lacquer thinner or MEK. Hardened material must be cleaned mechanically.

Packaging

Quicktop Crack Sealer is available in 19 litre pails.

Coverage

Approximately 2.0 – 2.5 m²/ltr per coat. However, coverage may vary depending on the surface porosity, size, and quantity of cracks present in the area being treated. Two coats may be necessary for very porous surfaces.

Don Construction Products Qatar W.L.L
New Industrial Area, Street 21,
Zone 81, bldg. # 9
Doha - Qatar



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- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Storage

Store in a cool and dry place, below 25°C, out of direct sunlight. Do not store near open flame or food.

After extended storage, additives and fillers can separate, materials should be inspected for any visible signs of settlement, polymerization, or paraffin coagulation (clumps, strands).

Thoroughly mix pails or drums (use a drum mixer, do not rely on rolling drum on floor) and pour into new containers to inspect resin before use.

Shelf life

Shelf life is 6 months in the original unopened containers at temperature below 25°C.

If these conditions are exceeded, contact DCP Technical Department for advice.

Cautions

Health and Safety

Quicktop Crack Sealer should not come in contact with skin or eyes. Goggles and gloves should be used.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information, refer to the Safety Data Sheet.

Fire

Quicktop Crack Sealer is not flammable.

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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