Quicktop Crack Sealer Method Statement
(Low viscosity MMA Crack Sealer)

Section A : General Comments

High temperature working

(i) Store material in a cool place and away from direct sunlight.

(ii) Store material in warm place during winter time to avoid freezing.

Equipment

It is suggested that the following list of equipment is adopted as a minimum requirement:

Protective clothing	:	*Protective overalls*
	:	*Good quality gloves, goggles and face mask*
Application equipment	:	*Squeegee or roller*

Section B : Application

1.0 Surface Preparation

1.1 The substrate should be sound, clean and free from dirt, wax, curing agents and any contamination.

1.2 Surface laitance should be removed by grit blasting or water jetting.

1.3 Before application of **Quicktop Crack Sealer**, the surface must be dry for 24 hours and just prior to application cracks should be cleaned with dry high pressure compressed air.

1.4 The concrete surface should be visibly dry and the moisture content in the concrete should be tested according to ASTM D4263.

1.5 The ambient temperature of the deck should be between 5°C - 40°C. For colder temperatures contact DCP Technical department.

2.0 Mixing

2.1 **Quicktop Crack Sealer** consists of two components, a resin and powder hardener.

2.2 Air/substrate temperature determines the amount of powder hardener used.

2.3 Table 1 lists the appropriate amount of powder hardener to be added to 1 litre of **Quicktop Crack Sealer** resin, and the pot life and hardening time.

2.4 Using clean, dry plastic buckets and scoops; add powder hardener to **Quicktop Crack Sealer** resin and mix until dissolved (approximately one minute).

2.5 A drill-mounted paddle mixer should be used for larger batches. Mixed **Quicktop Crack Sealer** must be used immediately.

Table 1: Mixing Percentages for Powder Hardener per one litre of Quicktop Crack Sealer

Temperature (°C)	Hardener (%pbw)	Pot Life (min)	Hardening time (minutes)
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.*

3.0 Application

3.1 General Installation Instructions for Crack Sealing

3.1.1 Cracks must be clean and dry. Clean out cracks with oil-free compressed air.

3.1.2 A hot lance may be used and provides excellent preparation however maximum substrate temperature at application must be observed.

3.1.3 **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.

3.1.4 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.

3.1.5 Creating a temporary dam from low quality sealant along the sides of the crack can assist with direct pouring. The caulking is later removed.

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

3.1.7 Excess material should be redistributed using squeegees or brooms within five minutes after application.

3.1.8 The quantity of **Quicktop Crack Sealer** resin mixed at one time should be limited to 19 litres.

3.2 General Installation Instructions for surface Treatment

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

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

3.2.3 Cracks greater than 3 mm width should be repaired individually prior to application of flood coat.

3.2.4 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.

3.2.5 **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.

3.2.6 Approximately 2.0 – 2.5 m^2/ltr per coat are needed, 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.

Notes:

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

4.0 Broadcasting of Aggregate

4.1 Broadcast sand should be applied to the entire treated area prior to cure, typically at 0.5 - 1 kg/m^2.

4.2 The sand used should be 12 x 16 mesh, #1 or #2 blasting sand, and should have a maximum moisture content no greater than 0.5%.

4.3 It should be placed within minutes of the resin application and before any setting of the resin occurs.

4.4 Traffic can be restored once the concrete surface is cured tack-free.

*Note: if line striping is to be applied after the application of **Quicktop Crack Sealer** the cured material on the concrete surface may need to be removed before application of the striping material.*

5.0 Cleaning

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

Section C : Approval and variations

This method statement is offered by DCP as a 'standard proposal' for the application of **Quicktop Crack Sealer**. It remains the responsibility of the Engineer to determine the correct method for any given application. Where alternative methods are to be used, these must be submitted to DCP for approval, in writing, prior to commencement of any work. DCP will not accept responsibility or liability for variations to the above method statement under any other condition.