



# Method Statement

*Ref. #: DCP07/02-0021-A-2022*



## Setseal 6

(Acrylic concrete curing membrane and sealer)



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## Section A : General Comments

### General Notes:

The information below is a detailed overview for the application of **Setseal 6** curing membrane and sealer system and should be read in conjunction with the relevant technical data sheet prior to application. All DCP Products should be applied by experienced specialist contractors.

All the points below assume correct preparation of the relevant surface.

### High Temperature Working:

It is suggested that, for temperatures above 35°C, the following guidelines are adopted as good working practice:

- i. Unmixed materials and equipment should be stored in a cool shaded area and away from direct sunlight.
- ii. Avoid application during peak temperature of the day.
- iii. Plan for enough materials, tools and labor to ensure continuous applicant process.


### Low Temperature Working:

It is suggested that, for temperatures below 5°C, the following guidelines are adopted as good working practice:

- i. Unmixed materials should be stored in a warm.
- ii. Do not apply under rain or snow, and avoid dew points conditions during application.
- iii. Avoid applying the grout if the temperature is around 5°C and falling.

**Tools and Equipment:**

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

- |                            |   |   |   |
|----------------------------|---|---|---|
| <i>Personal protection</i> | : | <i>Protective overalls</i>              |  |
|                            | : | <i>Goggles or a face mask</i>           |   |
|                            | : | <i>Good quality gloves</i>              |   |
|                            | : | <i>Safety shoes</i>                     |   |
|                            | : | <i>Safety helmet</i>                    |   |
| <i>Equipment</i>           | : | <i>Squeegee (Fig.1)</i>                 |   |
|                            | : | <i>Brush (Fig.2)</i>                    |   |
|                            | : | <i>Broom (Fig.3)</i>                    |   |
|                            | : | <i>Pump sprayer with nozzle (Fig.4)</i> |   |



*Fig.1: Squeegee*



*Fig.2: Brush*



*Fig.3: Broom*



*Fig.4: Pump sprayer with nozzle*

## Section B : Application

### 1.0 Substrate Preparation

#### 1.1 For Old Concrete (when used as a sealer)

- 1.1.1 The concrete substrate should be clean, sound, and free from any surface dust, dirt, oil, grease, or contamination.
- 1.1.2 Check product compatibility for a concrete substrate that is previously sealed. a small test section is strongly recommended to check compatibility between **Setseal 6** and the old sealer.
- 1.1.3 Substrate must be free of standing water.
- 1.1.4 Excess laitance deposits, organic growth, or any other loose materials are best removed mechanically by light grit blasting to remove any weak or deteriorated concrete.
- 1.1.5 Any surface imperfections, honeycombing, damaged or deteriorated concrete should be repaired with a suitable cementitious repair mortar. Consult the DCP's Technical Department for specific recommendations.



#### 1.2 For Freshly Finished Concrete (when used as a curing membrane and sealer)

- 1.2.1 No special surface preparation is required.
- 1.2.2 **Setseal 6** should be applied immediately following power floating/finishing of the concrete surface, and when the surface is firm enough to walk on and before hairline and temperature cracking begins.
- 1.2.3 Ensure all excess surface water has evaporated prior to application of the **Setseal 6**.
- 1.2.4 All form oil and breaking compound residue must be removed on areas where forms are recently removed in order to avoid inhibiting the impregnation of **Setseal 6** into the surface.

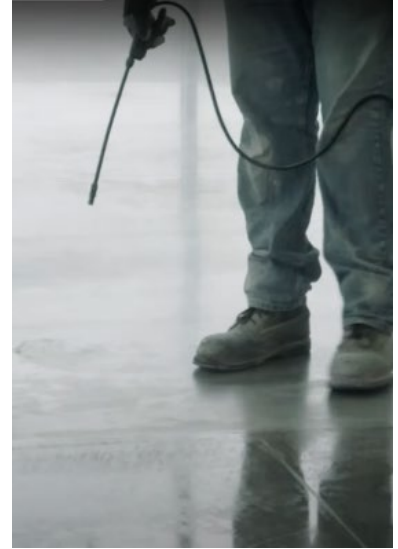
### 2.0 Mixing

- 2.1 **Setseal 6** is a ready-to-use single component material that doesn't require mixing, only stir **Setseal 6** thoroughly prior to application.

### 3.0 Application

#### 3.1 For Old Concrete (when used as a sealer)

- 3.1.1 Apply **Setseal 6** uniformly by squeegee, brush, pump sprayer with nozzle or broom at a nominal rate of 5 to 10 m<sup>2</sup> per litre for the first coat.
- 3.1.2 The spray nozzle should be held approximately 450 mm from concrete surfaces and passed back and forth to ensure complete coverage.
- 3.1.3 Pump pressure should be maintained all the time to give even and fine spray
- 3.1.4 Ensure uniform wetting and maintain a “wet edge” while spraying.
- 3.1.5 Ensure a continuous coat is achieved, it is important that no gaps or ‘raw edges’ appear in the finished coating and allow to dry.
- 3.1.6 Avoid puddling in low areas. If puddles occur brush them out.
- 3.1.7 After 5 to 8 hours, a second coat should be applied at a rate of 10 to 12 m<sup>2</sup> per litre.
- 3.1.8 The second coat of **Setseal 6** can be applied perpendicular to the first coat.
- 3.1.9 When using a broom, squeegee, or brush, extra care must be taken to ensure that **Setseal 6** is applied uniformly at the proper coverage rate.
- 3.1.10 Broom or squeegee to Re-distribute any puddles or runs before **Setseal 6** dries.



*Note: As the porosity of concrete surfaces can differ so widely, it is recommended that a test application area be carried out to determine the precise coverage rate for each specific job.*



### 3.2 For Freshly Finished Concrete (*when used as a curing membrane and sealer*)

- 3.2.1 **Setseal 6** should be applied to concrete immediately following the troweling operation, and as soon as the slab is safe to walk on.
- 3.2.2 Apply **Setseal 6** at a rate of 8 to 10 m<sup>2</sup> per litre using the sprayer without producing puddles.
- 3.2.3 The spray nozzle should be held approximately 450 mm from concrete surfaces and passed back and forth to ensure complete coverage.
- 3.2.4 Pump pressure should be maintained all the time to give even and fine spray
- 3.2.5 In severe drying conditions (high ambient temperatures, dryness of the air, surface draught, excessive air movement, etc), a second coat should be applied perpendicular to the first coat after 2 to 3 hours.
- 3.2.6 Care should be taken to ensure complete coverage and uniform wetting.
- 3.2.7 Pay particular attention to porous areas and slab edges.



## 4.0 Cleaning

- 4.1 All tools used for **Setseal 6** must be cleaned immediately after application with Xylene.

## 5.0 Limitations

- 5.1 The recommended application temperature range is between 5 and 30°C.
- 5.2 For the indoor application of **Setseal 6**, ensure adequate fresh air ventilation.
- 5.3 Do not apply **Setseal 6** in direct sunlight or hot weather, as this can result in bubbling.
- 5.4 **Setseal 6** is to be applied without dilution or thinning.
- 5.5 Bubbling, whitening, peeling, flaking, and ultimately product failure can occur caused by excessive build-up of **Setseal 6** when it is applied too heavily, in too many successive coats, or in many coatings caused by re-sealing too frequently. To avoid over-application, it's recommended to measure the area to be sealed, then calculate the volume of product needed depending on the coverage rate.
- 5.6 Protect freshly coated surfaces from rain or heavy fog for a minimum of 12 hours after the application of **Setseal 6**.
- 5.7 Special care should be taken to provide an unbroken coating at external corners and similarly exposed protrusions.
- 5.8 **Setseal 6** should not be applied onto frozen substrates or if the ambient temperature is around 5°C and falling.
- 5.9 Do not apply **Setseal 6** over bleed water or freestanding water.



- 5.10 Drying periods may be extended depending on the application rate, temperature, humidity, and project conditions
- 5.11 Restrict foot traffic for at least four hours. However, 12 hours is recommended.
- 5.12 For over coatings, consult with DCP's Technical Department to check if a certain coating can be applied over **Setseal 6**.

### Section C : Cautions

#### Health and safety

If accidental skin contact occurs, remove immediately with plenty of clean water. If swallowed, seek medical attention immediately.

#### Fire:

**Setseal 6** is flammable. Do not use near a naked flame and do not smoke during use.

**For further information on refer to the Material Safety Data Sheet.**

### Section D : Approval and Variations

This method statement is offered by DCP as a 'standard proposal' for the application of **Setseal 6**. 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.