

## Standard Specification for the application of Keim Lotexan to cement based substrates

Project:  
Specification: P2911  
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### 1.0 PREAMBLE:

This specification is for the application of a siloxane water repelling agent to the mineral surfaces of cement based substrates. With concrete blocks, natural stone and bricks, it is expected that they are laid and grouted to a high standard to ensure that there are no holes, gaps or other misses. With concrete panel, ensure the sealants have been cured for two weeks.

Typical substrates that can receive Keim Lotexan treatment:

- Concrete Panel
- Concrete Block
- Bricks
- Oamaru Stone or Limestone
- Cement based plaster
- Insitu concrete
- Natural stone claddings
- Mud brick – with a 10% cement content

**Keim Lotexan** is a non-film forming finish used to waterproof mineral surfaces. The finish is flat and there is no sheen. It is important to note that the product will not bridge cracks and therefore cracking of the substrate after application may allow some water ingress. It is anticipated that under normal circumstances this will be minor and as such no adverse effects are expected. Where large cracks or gaps appear, ensure these are filled with a compatible mineral based filler and re apply **Keim Lotexan** to these areas should they occur.

### 2.0 SURFACE PREPARATION:

#### 2.1 Moss Treatment

All existing surfaces shall be treated with an approved moss kill solution to kill all moss / mould spores and growths. Stipulated kill times shall be observed.

**Note** - Badly affected surfaces may require further treatment before coating application.

#### 2.2 Cleaning

Unless precluded by access considerations, all surfaces to be **Keim Lotexan** treated shall be thoroughly water pressure cleaned or steam cleaned to remove all dirt moss / mould residues and surface pollutants.

Consult Equus if there are stains or rust marks that need treatment.

### 3.0 KEIM LOTEXAN COATING APPLICATION:

#### 3.1 First Coat:

**Keim Lotexan** shall be applied to all masonry surfaces by low pressure knapsack sprayer at a spreading rate of approx. 3 m<sup>2</sup>/litre/coat. Back roll excess material and spread out to create a uniform application. It is recommended to work from the bottom up maintaining the wet on wet application.

#### 3.2 Second Coat – wet on wet:

Apply a further coat of **Keim Lotexan** in accordance with 3.1 allowing no more than **five minutes between coats**; ensuring the surface is coated “to refusal”. The spreading rate for this coat will be up to double that of the first coat 6 m<sup>2</sup>/litre depending on initial saturation achieved. Also, back roll to avoid curtain tracking of the material down the wall.

**Note:** When using this flow coat process, ensure that the working area is small enough to ensure the five minute interval is maintained. This period may be longer, with the main requirement being that coat one does not dry out, prior to top up application of the second coat.

### 4.0 SPECIFICATION NOTES:

- 4.1 Do not apply **Keim Lotexan** in hot or windy conditions or when rain is expected within six hours.
- 4.2 **Keim Lotexan** penetrates deep into the substrate; it forms no visible film or sheen. It may slightly darken the surface, depending on the aggregate mix in the concrete masonry.
- 4.3 In certain situations, it is preferable that the applicator applies the product from the base of any area up to the top. The most important consideration is even and full penetration treatment to the area, with no dry patches.
- 4.4 Ensure all adjacent surfaces are protected as curing Keim Lotexan can etch some surfaces, particularly glass and pathways below and any surrounding metal surfaces, especially copper.

### 5.0 MAINTENANCE AND WARRANTY:

#### 5.1 Maintenance:

Maintenance of this process is recommended by way of inspections every 4 years, as **Keim Lotexan** is not film forming. Cracking or mechanical damage to the substrate may require filling with a compatible mineral filler and a re-treatment to maintain the integrity of the system.

A water test should be carried out on representative areas, to assess the continued efficiency of the applied system. The effectiveness may be reduced by frequent exposure to abrasive wind action or other degradation of the masonry surface. If indicated a maintenance coat can be readily applied as in 3.2 above.

This coating system may be cleaned at any time by low pressure washing with a weak (0.1 %) solution of neutral detergent. When recoating is required either to maintain long term integrity or for weather resistance, this may be carried out using one or two coats of **Keim Lotexan**, following techniques similar to the methods described in 3.0 above.

## 5.2 Warranty:

A five (5) year warranty for water repelling of the **Keim Lotexan** process applied to the Concrete Masonry surfaces may be provided by the approved Equus Applicator carrying out the work and will be backed by the manufacturer as to fitness for purpose provided that

- a) All work is carried out by the Equus Applicator providing this warranty.
- b) All work is done in accordance with this specification and any amendments or alterations there to be issued by the manufacturer.

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