

## Concreseal 5

### Product Information Page

Concreseal 5 is a polymer-modified and cement-based single component mortar. It is specially designed for both superficial cosmetic repair and levelling of renders and concrete surfaces in very thin layers and feather edging, with a maximum thickness up to 5 mm.

#### Specification Tip for Design Professionals:

Concreseal 5 may be specified by name or by using the following description: *a polymer-modified and cement-based single component mortar designed for both superficial cosmetic repairs and levelling of renders and concrete surfaces in very thin layers.*



#### Application Fields

- ✓ Restoration and levelling of deteriorated surfaces in concrete and prefabricated elements: damages produced for de-moulding, breaks in the edges, small fissures, filling of honeycombs and small voids, gravel pockets, plasters, etc.
- ✓ Restoration on masonry and bricks.
- ✓ As base for fixing of isolation boards over concrete, screeds and masonry.
- ✓ Protective coating on concrete and mortars against abrasion and mechanical damages.

#### Benefits

- ✓ Good adhesion on all cement-based surfaces. No primer or bonding agent is required.
- ✓ Final finish for the surface is like the original concrete.
- ✓ Good thixotropic behaviour. It can be used on vertical or horizontal substrates.
- ✓ It is odourless, non-toxic.
- ✓ It is water and weather resistant.
- ✓ Only requires water for mixing.

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### How does Concreseal 5 work:

When Concreseal 5 is mixed with clean potable water it produces a levelling mortar that may be applied in very thin layers on render and surfaces.

### How do I prepare the surface before applying Concreseal 5:

The area must be sound, clean, and free from all contaminants. All cracks and fissures must be opened at least 2cm in depth and filled with Maxrite500 repair mortar. The surface should be damp but free from standing water.

**Note: Should any reinforcement be exposed please consult with our Technical Department for advice.**

### Mixing:

- Pour clean fresh water in a container and gradually add Concreseal 5.
- A 25 kg bag requires between 4 and 5 litres of clean potable water.
- Mix until a homogeneous - free of lumps - thick mortar is achieved using a paddle fitted to a slow speed mixing drill (400 -600 rpm).
- Allow the mixed material to rest for two to three minutes and then, remix briefly prior to application.
- If Concreseal 5 losses its workability during its application, remix it again but do not add water.
- Mix the amount of Concreseal 5 that can be applied within 40 minutes.

### How do I apply Concreseal 5:

- Concreseal 5 must be applied by trowel. For large areas, it can be applied using suitable spray equipment. The recommended application are layers with maximum thickness up to 5 mm.
- If required, when Concreseal 5 starts to set (from 1 to 3 hours, depending on ambient conditions) the surface can be finished with a sponge, wood or plastic float.
- The optimum temperature range for application is from 10 to 25 °C.
- Do not apply Concreseal 5 below 5 °C or if such temperatures are expected within 24 hours after the application.
- Do not apply the mortar on frozen or frosted surfaces.
- Do not apply Concreseal 5, if rain is expected within 8-12 hours after application.
- For applications with hot temperatures and windy condition the surface must be misted with plenty of water.

### Curing:

Apply a fine mist clean -water spray within 2 hours after placing Concreseal 5.

### Cleaning

All tools and equipment should be cleaned immediately with water after use. Once it hardens, can only be removed by mechanical means.

### Consumption:

Concreseal 5 is applied in layers with a consumption of 1,5 kg/m<sup>2</sup> per mm of thickness.

### Storage:

Concreseal 5 should be stored in cool dry conditions and protected from frost.

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| TECHNICAL DATA:   |  |
|---|--|
| Appearance  | Grey or white coloured powder  |
| Application temperature   | >5°C   |
| Flexural Strength EN1015-11 (MPa)   | 6.00 after 28 days   |
| Requirement for repair products EN 1504-3(Class)  | R3 Non Structural  |
| Compressive Strength  | >34.7N/mm <sup>2</sup> after 28 days   |
| Density for cured and dry mortar EN 1015-10 (g/cm <sup>3</sup> )  | 1.8± 0.1   |
| Open Time   | 40-45 minutes depending on temperatures  |
| Setting time at 20°C  | Initial 2-3minutes<br>Final 4-5 minutes  |
| Maximum aggregate size  | 1.2mm  |
| Water absorption by capillarity EN 1015-18Capillarity coefficient C (kg/m <sup>2</sup> ' / <sup>2</sup> ) | 0.2  |
| Health & Safety   | Contains cements. Protect eyes and prevent prolonged contact with skin. Keep out of reach of children For further information please consult the product MSDS. |
| Thickness per layer (mm)  | 5mm maximum  |
| Consumption (kg/m <sup>2</sup> /mm)   | 1.83   |
| Shelf Life  | 12 months from manufacture date  |

**Please protect the environment: Dispose of waste in accordance with the local authority regulations.**

**Disclaimer:** The general information provided in the present technical description, application guidelines and other recommendations, is based on research and experience. However, the client is obliged to determine themselves what products are suitable for use. Accordingly, no liability will be accepted by IBC Limited t/a SURFASOLOGY™.

**For further information contact the SURFASOLOGY™ Technical Department.**

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