



CONCRESEAL[®]

3

LEVELLING AND REPAIR MORTAR FOR COSMETIC RESTORATION OF MORTARS AND ARCHITECTURAL CONCRETE UP TO 3 mm

DESCRIPTION

CONCRESEAL[®]-3 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 3 mm.

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.

ADVANTAGES

- Good adhesion on all cement based surfaces. No primer or bonding agent is required.
- Final finish for the surface is similar to 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.
- It can be waterproofed and decorated with acrylic coating such as **MAXSHEEN[®]** or **MAXSHEEN[®] ELASTIC**.

APPLICATION INSTRUCTIONS

Surface preparation

The substrate to be repaired or levelled must be sound, clean and free from dirt, remains of paints, gypsum, efflorescence, as well as form de-moulding agents, curing agents or any product, which could affect the adhesion. Dampen the surface to be repaired thoroughly with clean water in order to saturate it before applying **CONCRESEAL[®]-3**, but leave no free standing water.

Before the application of **CONCRESEAL[®]-3**, all cracks and fissures must be opened up at least 2 cm in depth and filled with any repair mortar. In case of superficial non-structural steel elements are present, concrete around must be removed and the steel elements cut to a depth of 2 cm and finally, the opened area must be patched or repaired. For an efficient treatment, expose all structural reinforcement affected by corrosion, removing all concrete around them at a depth of 2 cm. These reinforcements should be cleaned of rust and scale and then, coated with **MAXREST[®] PASSIVE** (see Technical Bulletin n° 12) oxide converter and anti-corrosive protection. In order to fill the area, repair mortars such as **MAXREST[®]**, **MAXRITE[®] 500** or **MAXRITE[®] 700** (see Technical Bulletin n° 4, 50 and 51, respectively) are recommended.

Mixing

Pour clean fresh water in a container and gradually add **CONCRESEAL[®]-3**. A 25 kg bag requires from 6 to 7 litres of water. Mix until a homogeneous -free of lumps- thick mortar is achieved.

Mix the amount of **CONCRESEAL[®]-3** that can be applied within 40 minutes. Mixing is best done by mechanical means such as a

slow speed mixing drill (400 - 600 rpm) or manually. Allow the mixture to rest for two to three minutes and then, remix briefly prior to application.

If **CONCRESEAL®-3** loses its workability during its application, remix it again but do not add water.

Application

CONCRESEAL®-3 must be applied by trowel. For large areas, it can be applied also by spray equipment. The recommended application are layers with maximum thickness up to 3 mm.

If it is required, when **CONCRESEAL®-3** starts to set (from 1 to 3 hours, depending on ambient conditions) the surface can be finished with a sponge, wood or plastic float.

Application conditions

The optimum temperature range for application is from 10 to 25 °C.

In winter, do not apply **CONCRESEAL®-3** 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®-3**, if rain is expected within 8-12 h after the application.

For applications with hot temperatures and windy condition, i.e. summer time, the surface must be dampen with plenty of water

Curing

For a better curing, apply a fine mist water spray within 2 hours after placing **CONCRESEAL®-3**.

Cleaning

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

CONSUMPTION

CONCRESEAL®-3 is applied in layers with a consumption of 1,5 kg/m² per mm of thickness.

IMPORTANT INDICATIONS

- Never use leftovers from previous mixes.
- Do not add cement, aggregates or any other compound to **CONCRESEAL®-3**
- Do not apply in layers with thickness higher than 3 mm.
- For further information, consult our Technical Department.

PACKAGING

CONCRESEAL®-3 is supplied in 25 kg bags. It is available in standard grey colour.

STORAGE

Twelve months in its original unopened packaging. It must be stored in a dry and covered place, protected from humidity and freezing, with temperatures above 5 °C.

SAFETY AND HEALTH

As all cementitious materials, **CONCRESEAL®-3** is an abrasive product, and both rubber gloves and safety goggles must be used to prepare and apply the mixture. In case of eye contact, rinse thoroughly with abundant clean water for at least 15 min, but do not rub. In case of skin contact, wash affected areas with soap and water. If irritations persist, seek medical attention.

For further information, Safety Data Sheet of **CONCRESEAL®-3** is available by request.

Disposal of the product and its empty containers must be made according to official regulations. Final user must make this disposal.

TECHNICAL DATA

Characteristics of product in powder	
Presentation	Single component
Appearance	Grey powder
Maximum aggregate size (mm)	0,3
Apparent density of powder (kg/l)	1
Characteristics for mixed product	
Mixing water (water weight/product weight, %)	26 ± 2
Consistency of fresh mortar (mm)	174
Application conditions T (°C)	5-25
Pot life at 20°C (min)	40-45
Setting time at 20 °C (min)	
Initial	1 – 2
Final	3 – 4
Characteristics for hardened product	
Density for hardened product after 28 days (kg/l)	1,7
Flexural Strength, EN 1015-11 (MPa)	
7 days	4,95
28 days	27,3
Compressive Strength, EN 1015-11 (MPa)	
7 days	19,2
28 days	27,3
Adherence on concrete (MPa)	1,66
Abrasion resistance. Taber abrasion Test. ASTM D-4060	
Weight loss (g)/Wear Index	
H-22 Wheel, 1 kg load and 500 cycles	4,0/8,0
H-22 Wheel, 1 kg load and 1000 cycles	6,1/6,1
Water absorption by capillarity, EN 1015-18	
Capillarity coefficient, C (kg/m ² ·min ^{1/2})	0,2
Consumption/Thickness	
Consumption (kg/m ² per mm of thickness)	1,5
Maximum thickness per layer (mm)	3

GUARANTEE

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