



# CONCRESEAL® -1

**MICRO-FINE CEMENT MORTAR FOR SMALL THICKNESS  
LEVELING AND SMOOTH DECORATIVE FINISH**



## DESCRIPTION

**CONCRESEAL®-1** is a two-component mortar, based on micro-fine cement and acrylic synthetic resin, specially designed to provide a continuous and smooth decorative finish in small thickness or feather edge, on walls and floors, with high abrasion and weathering resistance.

## APPLICATION FIELDS

- Leveling/ pore sealing mortar with decorative finish on walls, pillars, stairs, floors and ceilings, for indoor or outdoor use.
- To provide a smooth decorative finish on waterproofing coatings for swimming-pools, ponds and artificial lagoons, i.e. **MAXSEAL®**, **MAXSEAL® FLEX**, etc.
- Decorative finish with mineral appearance for hotels, malls, office buildings, hospitals, restaurants, etc.

- Residential decorative finish of wet areas, kitchens, bathrooms, etc.

## ADVANTAGES

- Continuous levelling coat with no joints on walls and floors.
- Very low water absorption, suitable wet areas, kitchens and bathrooms.
- Allows water vapour diffusion and permeability.
- Good adhesion on a wide range of surfaces; concrete, mortars, tiles, etc. No primer/bonding agent is required.
- High abrasion and weathering resistance. It can be used under water immersion.
- Easy and clean application.

## APPLICATION INSTRUCTIONS

### Surface preparation

Surface must be structurally sound and firm. It must be clean and free of paints, coatings, cement laitance, efflorescence, loose particles, grease, oils, curing agents, form release agents, dust, gypsum plasters, organic growth or any other contaminants that may affect to adhesion.

Structural voids, honeycombs and non-active cracks, once opened and routed to a minimum depth of 2 cm, must be repaired with structural repair mortar **MAXREST®** (Technical Bulletin No. 2). Rebars and other metal elements exposed during the substrate preparation should be cleaned and passivated with **MAXREST® PASSIVE** (Technical Bulletin No. 12), while non-structural metal elements must be cut to a depth of at least 2 cm and then covered with **MAXREST®**.

Dampen thoroughly the entire surface with clean water, avoiding the formation of puddles. Allow excess water to drain away and start application once the surface acquires a matte appearance. If surface gets dry, proceed to dampen with water again.

For gypsum-based substrates, use as primers **MAXBOND®** or **MAXBOND®-S** (Technical Bulletins Nos. 10 and 263, respectively)

### Mixing

**CONCRESEAL® -1** is supplied as a two-component pre-weighed set. Pour 9 kg of resin component A into a clean container, and then add slowly 20 kg mortar of component B, mixing by a slow speed electric drill (400-600 rpm) fitted with a disc mixer, until achieving a lump-free and homogeneous mortar. Do not mix for prolonged period nor use high-speed mixer, which may introduce air bubble. Allow the mixture to rest for 1-2 minutes to fully wet out all the powder, and remix briefly before applying.

Mix only the amount of **CONCRESEAL® -1** that can be placed in about 20 minutes. After this time, mortar will have started its setting and will no longer be workable. If necessary, remix to keep the workability of the fresh mortar but do not add more water.

### Application

Apply by trowel or spatula a continuous and uniform coat of **CONCRESEAL® -1** with a consumption of 0,2-0,25 kg/m<sup>2</sup> per coat (0,2 - 0,25 mm per coat). Apply two coats for better covering and sealing of the substrate. Waiting time between coats is 30 - 60 minutes. Do not apply coats in higher thickness and do not over work the fresh coat once applied.

### Application conditions

Do not apply when rain, contact with water, condensation, dampness or dew is expected within the first 24 hours.

The optimum temperature range for application is from 10 °C to 30 °C. Do not apply with substrate and/or ambient temperature is at or below 5°C, or if temperature is expected to fall within 24 hours. Do not apply to frozen or frost-covered surfaces.

For applications at hot temperatures, low relative humidity and/or windy conditions, i.e. summer time (> 30 °C), substrate must be wet thoroughly with plenty of water prior to application. Avoid applications exposed to direct sunlight with high temperatures (> 35 °C).

### Curing

Under direct sunlight, hot weather, windy and/or low humidity conditions, prevent a quick-drying process of **CONCRESEAL® -1** keeping a moisture curing at least 24 hours after application, by using plastic sheeting, damp burlaps or spraying a fine mist of water, avoiding to wash out the surface.

Allow **CONCRESEAL® -1** to cure for at least 24 hours and 5 days at 20 °C and 50% R.H., before opening to pedestrian traffic and putting to immersion in water, respectively. Lower temperature and/or higher R.H. values increase the curing time.

### Cleaning

All mixing and application tools must be cleaned immediately with water after use. Once product hardens, this can only be removed by mechanical means.

## CONSUMPTION

Estimated consumption of **CONCRESEAL® -1** is 0,2 - 0,25 kg/m<sup>2</sup> per coat, with an approximate thickness from 0,2 - 0,25 mm per coat. Apply two coats for an optimum coverage.

These figures are for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly under jobsite conditions.

## IMPORTANT INDICATIONS

- Do not add cement, additives, aggregates or other compounds.
- Use the recommended mixing ratio between components.
- Do not use leftovers from previous mixes.
- To keep workability of fresh mortar, remix briefly but do not add more water. Do not mix more material than can be used within 20-30 minutes.
- Observe the recommended consumptions and maximum thickness per coat:
- For other uses not specified in this Technical Bulletin or further information, consult the Technical Department.

## PACKAGING

**CONCRESEAL<sup>®</sup>-1** is supplied in 29 kg set: component A in 9 kg can and component B in 20 kg bag or drum. It is available in grey and white colour.

## STORAGE

Eighteen months for component A. For component B, eighteen months packed in drum or twelve months packed in bag.

It must be stored in its unopened and undamaged original packaging, in a cool, dry and covered place, protected from moisture, freezing and direct sunlight, at temperatures above 5 °C.

## SAFETY AND HEALTH

**CONCRESEAL<sup>®</sup>-1** is not a toxic product but is an abrasive composition. Avoid skin and eye contact and dust breathing. Use rubber gloves and safety goggles during application. In case of skin contact, wash affected area with soap and water. In case of eye contact, rinse immediately thoroughly with clean water but do not rub. If the irritation persists, seek medical assistance.

Consult the Material Safety Data Sheet for **CONCRESEAL<sup>®</sup>-1**

Disposal of the product and its packaging should be carried out according to the current official regulations and it is the responsibility of the final user of the product.

## TECHNICAL DATA

<b>Product characteristics</b>	
General appearance and colour for component A	White milky liquid
General appearance and colour for component B	Grey or white powder
Density for liquid component A, (g/cm <sup>3</sup> )	1,00 ± 0,10
Density for powder component B, (g/cm <sup>3</sup> )	0,90 ± 0,10
Mixing ratio, (A:B, by weight)	9:20
<b>Application and curing conditions</b>	
Minimum application temperature for substrate and ambient, (°C)	> 5
Pot life at 20 °C & 50 % R.H., (min)	Approx. 20-30
Waiting time before coats, at 20 °C & 50 % R.H., (min)	> 30
Setting time at 20 °C & 50 % R.H., (h)	3-4
Curing time for pedestrian traffic at 20 °C & 50 % R.H., (h)	24
<b>Cured product characteristics</b>	
Compressive strength at 28 days, EN 12190 (MPa)	> 45
Adhesive bond on concrete at 28 days, EN 1542 (MPa)	> 1,5
<b>Consumption* / Thickness</b>	
Thickness per coat (mm)	0,2 – 0,25
Consumption per coat / total application, (kg/m <sup>2</sup> )	0,2 - 0,25 / 0,4 – 0,5

\* These figures are for guidance only and may vary depending on porosity, texture and conditions for substrate, and application method. Perform a preliminary test on-site to ascertain the total consumption exactly under jobsite conditions

## GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO®**, **S.A.U.** reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.



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