

CorroSeal 1C

One component elastic and flexible sealing membrane for waterproofing and concrete protection

Technical Data Sheet

Product description

CorroSeal 1C is a single component, hydro active, cement based, elastic and flexible lightweight membrane for waterproofing, concrete protection, and specifically meant to protect ZLA as an overcoat sealer against water ingress.

When mixed with water, CorroSeal 1C obtains a fluid consistency so that it can be easily hand applied or sprayed. CorroSeal 1C is composed of lightweight fillers, sand and special polymers in powder form and cures without cracking.

Field of application

CorroSeal 1C is used as a reliable and permanent waterproofing system for nearly all cases, up to pressurized water up to 6 m water column. CorroSeal 1C is developed to protect ZLA against water ingress but can also be used for positive side (outside) waterproofing of buildings and also usable in wet rooms for waterproofing under tiles. It is applicable on nearly all mineral based solid surfaces with a strength of $\geq 1,5 \text{ N/mm}^2$.

Typical application areas are :

- For interior and exterior application
- Foundation protection
- Protection against carbonation and chloride attack
- Car parkings
- Water tanks
- wet rooms or manholes
- Waterproofing under walls against rising dampness
- For areas constantly submerged in water
- ZLA protection against water ingress

Features and benefits

- One component with high elastic properties
- Watertight
- Crack bridging
- UV-resistant
- High solid content
- Radon gas tight
- Sprayable
- Easy and smooth application



CorroSeal 1C

Technical data

Characteristics	Performance	Test method
Water vapour permeability μ	SD < 5m (Class I)	EN ISO 7783-2
SD-value (CO ₂)	SD > 50m	EN 1062-6
Density:	1,5 g/cm ³	
Capillary absorption and permeability to water	w < 0,1 kg/m ² · h ^{0,5}	EN 1062-3
Adhesion strength by pull-off test	≥ 1,5 N/mm ²	EN 1542
Reaction to fire	Euroclass E	E 13501-1
Dangerous substances	Comply with 5.3	

Instructions

Application data		
Mixing water requirement	180 – max. 260 ml/kg	
Loadable	after 3 days	
Loadable with pressurized water	after 7 days	
Applicable	approx. 1 hour at 20°C	
Consumption	1.2 kg per mm coating thickness	
Recommended thickness for waterproofing	> 2mm	
Delivery	20 kg bags	
Storage	6 months frost-free and dry +5 ⁰ -25 ⁰ C in original packing	

Application

Surface preparation

1. Mineral surfaces must be pre-wetted, sound, absorbent and clean. Bonding inhibiting agents such as grease, oil, formwork oil and all loose particles and dust must be removed before application. Damaged area like cracks, holes or cavities have to be repaired. Pores must be open to penetrate. CorroSeal 1C can be applied on old tiles.
2. Metallic surfaces like ZLA must be clean for application. Agents such as grease, gel residue, oil and dust must be removed prior to application.

CorroSeal 1C

For wet rooms, balconies and terraces, CorroSeal 1C should be mixed lump-free and homogeneous in the predetermined mixing ratio in a clean mixing pail by using a low speed mixer. Put firstly 3/4 of the water volume in a pail and add the whole powder, mix it until a lump-free compound is attained. After 3 minutes add the rest 1/4 of the water and mix again. Apply the product by using a hard brush, a wide-paint brush or trowel. The application must be done in minimum 2 layers. The second layer will be applied after the first layer is dry. For mechanical impact resistance glasfiber reinforcement mesh can be imbedded.

For positive side waterproofing apply the first layer of CorroSeal 1C using a brush or trowel. A dry surface should be pre-wetted. Before applying the second layer the first layer must be cured depending on weather conditions after 3-4 hours. During curing prevent any mechanical damages. Avoid fast drying (wind, sun etc.), frost and rain.

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EN 1504-2:2004	
Elastic and flexible membrane for waterproofing	
Permeability to CO₂	SD > 50 m
Permeability to water vapour	SD < 5 m (Class I)
Capillary absorption and permeability to water	w < 0,1 kg/m² · h^{0,5}
Adhesion strength by pull-off test	≥ 1,5 N/mm²
Reaction to fire	Euroclass E
Dangerous substances	Comply with 5.3

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Revision Nr.

01
02

Revision date

6th September 2019
30th June 2020

All technical data stated in this Technical Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. The information, and, in particular, the recommendations relating to the application and end-use of CorrPRE's products, are given in good faith based on CorrPRE's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with CorrPRE's recommendations.