

PUDLO

Render Seal 2C

PUDLO Render Seal 2C is a two component cementitious, waterproof membrane

Uses

PUDLO Render Seal 2C is a 2 component product consisting of polymer modified cementitious powder (part A) and a latex (part B).

- Basements
- Pile heads
- Swimming pools
- Retaining walls
- Lift pits
- Applied internal and external to walls
- Applied to masonry

Mixing

Mix 25kg of PUDLO Render Seal 2C part A with 10kg of Render Seal 2C part B in a clean container for at least 3 minutes to a lump free, homogenous consistency achieved using a mechanical mixer, please consult our installation manual for more information.

Application & Installation

PUDLO Render Seal 2C must be applied within 60 minutes of mixing. Refer to PUDLO Render Seal 2C installation manual.

Ensure dampness prior to application. Check surface after pre-wetting it and ensure no water film inside hand after touching the wall.

First apply scratch coat to close any pinhole and small holes, as entrapped air will cause bubbles/blister.

Render Seal 2C is applied with, trowel or suitable spray equipment. Depending on the slurry consistency a maximum of 4 kg/m² can be applied in one working cycle. A minimum of two 2mm coats are applied.

When several coats are applied the previous coat must not be damaged during application of the following coat. The waiting time before applying the following coat depends on local climatic conditions such as humidity, temperature, etc. The previous coat is



textured by suitable means whilst still plastic to form a key.

Surface Preparation

Substrates must be free of grease, dirt, laitance or any other contaminants that may adversely affect adhesion. Substrates to be treated must be sound and even, open pored, roughened and its surface free of voids or large cracks (>0.8mm). Water ingress (leaks) must be stopped with suitable materials, please contact PUDLO's technical team for further advice. The substrate may be saturated surface-dry (SSD) and not exceed this state prior to application.

Brick- and blockwork substrates

Any remaining plaster, render or other substances that could inhibit bonding must be removed back to the substrate. Gypsum, remains of wood or other foreign material must be removed by appropriate means. Loose pointing must be routed out and the substrate cleaned thoroughly.

Trowel application

First a scratch coat is applied for maximum adhesion to the substrate, working from the bottom up. Ensure that all cavities in the substrate are filled in order to exclude any trapped air.

Spray application

Render Seal 2C can be applied with a suitable fine mortar spraying device. For maximum spray pattern it should be possible to adjust volume of product as well as air pressure and volume. The nozzle diameter is approx. 6 mm. The first layer of Render Seal 2C is applied in circular motion with the spray nozzle held at a 90° angle to the substrate. The material is then flattened and keyed. The final layer can be left as a spray finish or treated to a specified finish.

TYPE A WATERPROOFING

Storage & shelf life

PUDLO Render Seal 2C (part A and part B), when stored in a cool dry place, unopened and undamaged, has a shelf life of 12 months

Curing

Provide suitable protection against extreme weather conditions (e.g. rain, sun, wind, frost) while setting. The freshly treated surfaces should be protected from rain for a minimum period of 24 h.

The Render Seal 2C coating must be fully cured before getting in contact with water. Avoid formation of water films or condensation on top of coating during 7 days after application.

Provide a relative humidity of 60–80% and good air exchange in enclosed areas.

Backfilling

Backfilling can be carried out 3 days after completion of the PUDLO Render Seal application. If there is a risk of the Render Seal membrane being damaged during back-filling (sharp-edged material) it must be protected by suitable means.

Plastering/ coating/ cement based tile adhesive

Surfaces treated with Render Seal products which are to be coated or painted should be left to cure for at least 28 days.

Coatings applied over the Render Seal membrane must be alkali resistant. Decorative coatings applied on the passive water pressure side are recommended to be water vapour permeable. When applying paint on an elasticized polymer modified product, it must have equivalent elastic properties

For cement based tile adhesives, curing times a minimum of 14 days

Supporting documents

- Please refer to PUDLO Render Seal 2C part A & part B MSDS for further information
- PUDLO Render Seal Installation Manual
- Product webpage - please see www.pudlo.com

Benefits

- Applied to both concrete and masonry on new builds or for remediation measures
- Resistant to carbonation
- Robust internal waterproofing product
- Mixed with latex for improved elastomeric and crack bridging properties of up to 0.8mm.
- Resists positive & negative hydrostatic pressure up to 7 bar resistance
- Can be brush, trowel or spray applied
- Flexible to accommodate minor movement, up to 0.8mm
- Can be used in damp conditions
- Resistance to salt solutions, dilute acids and alkali solutions. Contact our technical team for more information

Ancillary products

- PS Concrete Repair
- PUDLO Render Strip

Yield - 1 bag per coat of Render Seal. For example you will need 2 bags of PUDLO Render Seal to do both coats required for 5m², dependent upon the substrate roughness and thickness of layer(s) applied.

Health & Safety

Do not breathe in dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/ face protection.

Please refer to PUDLO Render Seal 2C part A & part B MSDS for further information

Further information

For further information on accessories that are used with PUDLO Render Seal 2C, contact: technical@pudlo.com.

TYPE A WATERPROOFING

Technical Data

Technical data		
Capillary water absorption	≤ 0.1 kg/m ² -h0.5	
Reaction to fire	Class E	
Permeability to CO ₂	S _D > 50 m	
Water vapour permeability	Class I S _D < 5m	
Adhesion strength	≥ 0.8 MPa	
Dangerous substances	Complies with 5.3	
	Dry component	Polymer component
Appearance	Grey powder	Milky white liquid
	Wet mix	Hardened
Colour	Grey	Grey - PUDLO renderseal 2C is not a decorative coating
Density of wet mix (kg/l)	approx 1.7	
Workability at 20°C (min)	approx. 30	
Setting time at 20°C (h)		approx. 3-6
Elongation at 20°C (%)		approx.20
Tear resistance at 20°C (MPa)		approx. 0.8
Crack bridging capacity at 20°C (mm)		< 0.8

All data is averages of several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.

Consumption

Type of water impact	Recommended overall application rate	number of layers
Pressureless water	2.5 - 3.5 kg/m ²	1 - 2
Water under pressure	3.5 - 5.5 kg/m ² (depending on water pressure)	2 - 3

Note:Substrate and application conditions have to be observed. Depending on surface roughness, consumption may vary.