

Roundtower Tanking Render

A dry ready mixed Natural Cement Render for Tanking.



Product Description

Factory blended render using graded kiln dried sand and VICAT Prompt Natural Cement, combined with carefully selected additives to improve the render's physical and mechanical properties.

Mix Ratio

1:1 - Prompt: sand, plus retarder.

Binder

VICAT Prompt Natural Cement.

Aggregate

5mm down sharp flint sand.

Usage

Tanking Render is singularly designed for tanking of a substrate – to prevent water penetration in either direction – for internal or external use.

Suitable for applications in construction where the binder strength is appropriate for the host background or surface.

This is quite a strong mix so it unsuitable for use onto some types of limestone, sandstone or damaged surfaces; please consult us for more information.

Do not use this product below 5°C, do not use this product if freezing conditions are predicted within the following few weeks (including wind chill). Do not use this product in temperatures above 30°C.

Coverage

After mixing, a 25kg bag will produce approximately 15 litres of mortar.

For render applications; a single 25kg bag will cover 1.5m² at 10mm thickness on a totally flat background. As substrates are never completely flat on-site trials will always give the best indication of yield for your specific project.

Advantages

- Quality controlled production and product consistency.
- Improved workability of mortar, extended working and finishing time, increased bond strength and reduced risk of shrinkage.
- Increased water retention for improved cure.
- Made without Portland cement, meaning it's often approved for use on listed buildings as a means of last resort.

Colour and Texture

All of our render range is entirely natural in colour. No pigments or colourants are added.

Tanking Render is made with a 5mm down tan flint sand; however, this has little effect on the render colour. The colour comes from the Prompt itself which has a tan to rusty colour.

The final colour achieved will depend on how well the render is cured, keeping the render properly damp will result in a light tan colour whilst allowing it to dry back quickly (which we strongly advise against) will result in an uneven rust like colour.

Preparation

Dense impervious backgrounds/materials are unlikely to be very absorbent and require little to no dampening, whereas more absorbent backgrounds/materials require adequate dampening in order to prevent rapid drying.

Ensure surfaces are clean and free of dust and other debris.

As this product is a fast-setting render, we typically advise preparation of tools, mixers, staff etc before starting to mix this render. We would also advise mixing smaller batches more frequently to ensure that it doesn't set in the wheelbarrow and go to waste. As you get use to the open time of the product you can scale your mix size to suit your rate of consumption.

Mixing

A 25kg bag of mortar will require 4.5 to 5.5 litres of clean potable water. Always avoid making the mortar too wet, as this can promote shrinkage issues.

For drum type mixers, it is essential not to overfill the mixer.

As a dry mixed material, it is possible that some settlement or separation may occur in the bag during transit; when mixing part bags, it is especially important that the dry contents are thoroughly blended prior to mixing with water.

Best Practice/Advised Mixing: First add 80 to 90% water of the total water into the mixer, followed by the dry render and turn the mixer on. Allow the mortar to mix until the water is thoroughly distributed, then add additional water to achieve desired consistency.

Mixing Time in a Belle Mixer: Mix for a minimum of 3 minutes, but for no longer than 8 minutes.

Mixing Time with a Whisk: Mix for a minimum of 2 minutes, but for no longer than 5 minutes.

Once water has been added, this mortar has an open time of 30-40 minutes in hot weather and up to 1 hour 30 in cold weather.

Usage and Finishing



Roundtower Lime

The Forge, Innishannon, Co. Cork, Ireland
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Areas of Use: This product is singularly designed for preventing water penetration. Whilst it may be possible to use in other applications it is not designed for this and care must be taken to avoid its use on unsuitable backgrounds.

Coats: Tanking Render should be used as a minimum of two coats at 10mm per coat. We typically advise a third coat of lime render on top of tanking to deal with any “sweating” of the layer.

Application: Always wet a substrate (including previous render layers) to control suction before use, however you don't want to be laying into water sitting on the surface of the wall as this will act as a slip-layer and prevent the render from bonding.

Apply a 10mm coat to the background, scratch to approximately 1/3 of the depth of the render using a diamond scratch pattern. The more common ‘wavey line’ scratch used on modern sand and cement renders is not appropriate for this design of material.

Apply the second coat as soon as possible after the first coat to a depth of 10mm, preferably the same day, once the previous layer has started to set. If this is to be the finish then this coat should be floated with a wooden or plastic float to compress the surface after application; this will behave more like a modern sand and cement product than a lime render under the float. If this is to be topped with a lime render then this coat should be scratched in the same method as the first coat and it should be applied the following day.

Ideally a third coat of lime render should be very porous, such as the Roundtower Insulating Render, or the NHL2 Promix Medium Topcoat, this should be given a float finish rather than a trowelled finish to improve the moisture managing characteristics.

After application the render should be kept damp to promote a cure and protected from high temperatures and drying winds for a minimum of two weeks; longer in colder weather. This can be achieved by use of damp hung hessian or even just unprotected regular dampening in sheltered areas.

Packaging

This product is supplied in 25kg polythene lined paper bags, palletised for shipping and handling. Also available as tonne bags for 3 Tonne or higher order quantities.

The packaging is a mixed material and should be recycled accordingly.

Storage

This product should be stored in dry conditions, in unopened bags and clear from the ground. Always protect bags from water and damp. Reseal part bags after opening if unused product is present.

Use within 6 to 8 weeks of the manufacturing date (provided on each bag).

Health and Safety

RISK PHRASES: R36 / R37 / R38 / R43

- Avoid contact with skin and eyes.
- Contact with wet mortar may cause irritation, dermatitis and/or burns.
- Contact between lime powder and body fluid (sweat, eye fluid etc.) may cause skin burns and respiratory irritation, dermatitis or burns.

SAFETY PHRASES: S2 / S24/25 / S26 / S37

- Avoid eye and skin contact by wearing suitable eye protection, protective clothing and gloves.
- Avoid breathing dust.
- Keep out of reach of children.
- On contact with skin and/or eyes, rinse immediately with clean water and seek medical attention.

Declaration

Roundtower lime mortars for renders and plasters are manufactured to the requirements of BS EN 998-1: 2016.

These will contain no Portland Cement whatsoever unless requested as a custom mortar or part of the Newbuild product range.

Document Control

Datasheet version 1.7, issued September 2024. Any more modern versions will supersede this datasheet, with no exclusions.



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