

# Torggler

Restoration

## BOND & FINISH

Pre-mixed mineral mortar to be used to lay calcium-silicate panels, both as an adhesive for bonding to the support, and for the finishing and smoothing of fiberglass reinforcing mesh.



- Highly adhesive to the support surface
- Excellent workability
- Hardening with reduced stress
- High water vapour diffusion
- Attainable thickness of 2-5 mm
- Smooth finish



### APPLICATION AREAS

Renovation of mineral-based walls and ceilings in buildings, in areas affected by rising damp, saline efflorescence, areas subject to microbiological growth and the formation of mould.

### TYPES OF SUBSTRATE

Concrete supports, brick and/or stone masonry, mortars, plasters and mineral renderings.

### MAXIMUM ATTAINABLE THICKNESSES

From 2 to 5 mm

### FEATURES

Bond&Finish is a premixed mortar made with special hydraulic binders, selected aggregates and polymers, with excellent breathability and high adhesive strength, GP CSIV W2 classified according to EN 998-1. For the laying and bonding of calcium-silicate panels, as well as for the subsequent finishing operation and smoothing of fiberglass reinforcing mesh. An extremely workable mix is created when the product is mixed with water. The mix is very easy to apply using a trowel, plastering trowel, or a straight edge, even vertically and/or overhead, without sagging or waste, and ensures excellent adhesion to the substrate and the panel. Bond&Finish has very low tension and therefore can even be applied at a greater thickness and prevents hairline cracking.

## **WARNINGS**

- Do not mix Bond&Finish with other binders such as cement, hydraulic lime, gypsum, etc.
- Do not use on gypsum or anhydrite-based substrates or on metal or wood substrates.
- Never reconstitute the product with additional water and do not use the mixed product after it has already started to set. Therefore, always prepare quantities of mix which can be used within the pot life.
- Do not apply Bond&Finish at a thickness greater than 5 mm.
- Do not apply Bond&Finish when the temperature is below +5°C and above +35°C
- Do not use the system for outdoor applications
- Do not cover the system with waterproof finishes, paints or coatings

## **INSTRUCTIONS FOR USE**

### **PREPARATION OF THE SUBSTRATE**

The surfaces to be covered must be solid and regular yet sufficiently rough, clean and free of oils and grease, dust, loose material, dirt of any kind and any traces of old paint. The surfaces must also be sufficiently cured and free of significant shrinkage. Any surface blooming must be carefully removed using mechanical cleaning equipment. Obvious surface irregularities and eroded or deteriorated points must be repaired and filled using a special mortar. Substrates that have the clear presence of mould and microbiological growth must be previously treated with the Deep Cleaner mould removal product. Then treat the soffit panel with a coat of SHIELD.

### **PREPARATION OF THE PRODUCT**

Mix Bond&Finish with 29-31% of clean water (equal to 7.25 – 7.75 litres per 25 kg bag). It is recommended that you pour all the water into a special container then slowly add the powder with constant mixing using a mechanical device (low-speed drill with mixer attachment). Mix until a uniform mixture without lumps is obtained. Make sure any lumps on the sides or the bottom of the container are mixed in properly. Allow the mixture to stand for 5 minutes then mix again briefly. If necessary adjust the consistency by adding a little more water. The mixture has a pot-life of about 1 hour under normal conditions (20 °C). The pot-life is shortened at higher temperatures and lengthened at lower ones.

### **APPLICATION AS A BONDING ADHESIVE**

Apply the product using a notched trowel, spreading it over the entire rear surface of the panel. Now put the panel on the substrate so that it adheres properly then adjust its position. The finishing operation can be performed after 24 hours.

### **APPLICATION AS A LEVELLING/FINISH PRODUCT**

Apply the product using a plastering trowel, properly spreading over the entire surface of the installed panels at the desired thickness; then press the Torggler T4 fiberglass mesh into the fresh product; after a minimum of 24 hours a final coat of mortar can be applied to completely cover the mesh.

Contact the Torggler technical service department service if you have doubts or questions about the system and/or successive steps. The tools used to apply Bond&Finish can be cleaned with water before the mix hardens. Once hardened, the mix must be scraped off.

## **WAITING TIMES**

Waiting time between coats: approx. 24 hours, depending on the porosity of the substrate and the environmental conditions. After the product has been allowed to completely harden for at least 7-10 days, the surface can be covered with a highly breathable paint.

## TECHNICAL SPECIFICATIONS

PARAMETER AND TEST METHOD	VALUE
<b>MEASURED ON POWDER PRODUCT</b>	
Consistency	powder beige
Grain size (EN 1015-1)	0 – 0,6 mm
Apparent density of the powder	1,150 kg/m <sup>3</sup>
<b>MEASURED ON FRESH MIX</b>	
Mixing water	23-25% (equal to 5,75-6,25 litres per 25 kg bag)
Mix consistency	spreadable paste
Bulk density of fresh mortar (EN 1015-6)	1.620 kg/m <sup>3</sup>
Application temperature	from +5 °C to +35 °C
Mix pot life	1 hour
Setting time start/stop (EN 196-3)	11-14 hours
Total curing time	28 days
<b>MEASURED ON HARDENED PRODUCT</b>	
Bulk density of hardened mortar (EN 1015-10)	1,380 kg/m <sup>3</sup>
Working temperature	from -20 °C to +90 °C
Compressive strength (EN 1015-11)	6 N/mm <sup>2</sup>
Flexural strength (EN 1015-11)	2,5 N/mm <sup>2</sup>
Water absorption coefficient after 90 minutes (EN 1015-18)	< 0,4 kg/(m <sup>2</sup> *min <sup>0,5</sup> )
Water vapour diffusion coefficient – $\mu$ (EN 1015-19)	5 – 20
SD value	0,07 m
Adhesion to concrete (EN 1015-12)	1,0 N/mm <sup>2</sup>
Adhesion to a salt-resistant plate	0,10 N/mm <sup>2</sup>
Adhesion to an insulating panel	0,10 N/mm <sup>2</sup>
Attainable thickness	from 2 to 10 mm
Consumption	1,5 kg/m <sup>2</sup> /mm of thickness
Classification according to EN 998-1	GP CSIII Wc1
<b>Color</b>	
Color	White
<b>Packaging</b>	
Packaging	bag
Packaging size	25 kg
Pallet	50 bags

## CONSUMPTION

The consumption of Bond&Finish is approximately 1.5 kg/m<sup>2</sup> per mm of thickness. Approximately 4 kg/m<sup>2</sup> is normally required when used as an adhesive, while 3 to 7.5 kg/m<sup>2</sup> is needed for finishing, depending on the thickness.

## STORAGE

Store Bond&Finish in a dry, protected place. Unopened in its original bags, the product can be stored for at least 12 months.

## **CERTIFICATIONS**

The declarations of performance (DoP) are available upon request.

The information contained in this document is reported on the basis of our experience and knowledge; therefore, any recommendations and suggestions made are without any guarantee and must be verified before using the product by those who intend to use it, who assume all responsibility that may result from its use since the conditions of use are not under our direct control. In case of doubt, it is always advisable to make preliminary tests and/or ask for the intervention of our technicians. Torggler reserves the right to modify, replace and/or delete the items, as well as to change the product data in this document without prior notice; in this case the indications given here may no longer be valid. Always refer to the latest version of the data sheet, available at [www.torggler.com](http://www.torggler.com). Version 23.11.2021.