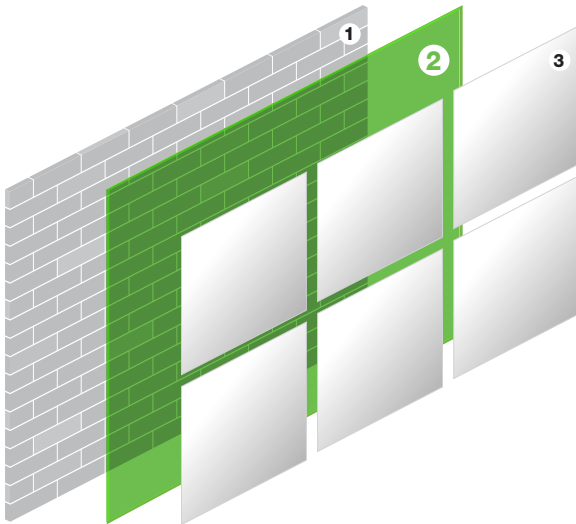


# ULTRA BOND 378

Comply to C2TE S2 Class for all kinds of Tiles and Cementitious Panel

## SYSTEM DIAGRAM



1. Substrate
2. Ultra Bond 378
3. Tiles or panel

## DESCRIPTION

High performance cementitious adhesive complying C2TE S2 class of EN 12004 for all kinds of tiles and cementitious panel on different type substrates

## USES

- Exterior and interior tiling for all kinds of tiles and cement based panel
- For fixing ceramic, porcelain, homogeneous tiles as well as granite and marble stone
- For adhesion of cementitious panel such as light weight, concrete, HPC and UHPC panels
- Tiling on metal or wooden substrate
- Tile on tile application

## BENEFITS

- Highly flexible for different kinds of substrate
- Ultra high adhesive strength for low water absorption tiles or panel
- Tiling on high stress location
- For wet and dry, exterior and interior environment
- Extended open time
- Slip resistance

## COMPLIED STANDARD

- EN 12004 - 1 & 2 : 2017
- MS ISO 13007 - 1 & 2 : 2014

## TECHNICAL PROPERTIES

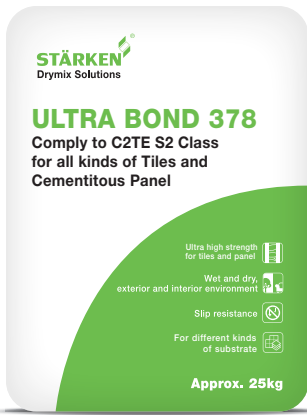
Technical Properties	Value
Initial Adhesive Strength	≥ 2.2 N/mm <sup>2</sup>
After Water Immersion	≥ 1.4 N/mm <sup>2</sup>
After Heat Ageing	≥ 2.0 N/mm <sup>2</sup>
Open Time	≥ 30 mins
Slip Resistance	≤ 0.5mm
Deformability	≥ 5 mm

## RECOMMENDATION

- Use 6 mm notched trowel for 5 mm application or by 10 mm notched trowel for 8 mm application
- For tile size larger than 0.15m<sup>2</sup>, 1-2 mm back buttering should be applied
- For exterior tiling condition, it is advised to finish tiling with 20 mins open time
- For hot climate application, not more than 500mL water can be added

## STORAGE

Shelf life is 6 months if stored in dry and cool place



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## PHYSICAL FEATURES

Physical Properties	Feature
Package	25 kg Powder + 10 L Admixture
Consumption	1.2 kg powder/m <sup>2</sup> /mm
Binder	Cement, Polymer Emulsion, Green Binder
Filler Size	< 1.0 mm
Application Thickness	3 - 8 mm
Open Time	30 mins
Pot Life	3 hours

## APPLICATION

### SUBSTRATE PREPARATION

- Substrate should be free from mould oil, grease, loose particles and contamination of foreign materials
- Dampening of concrete or plastered substrate is recommended prior to the application

### MATERIAL PREPARATION

- Mix 1 bag of 25kg **Ultra Bond 378** powder with 10 L admixture for at least 3 minutes by electrical mixer until homogeneous
- For hot climate application, not more than 500 mL water can be added
- Apply by 6 mm notched trowel for 5 mm application or by 10 mm notched trowel for 8 mm application on the substrate with area not more than 2 m<sup>2</sup>
- Apply 1-2 mm back buttering of on the back of tile when the tile size is > 0.15m<sup>2</sup>
- Press the tile firmly on the notched **Ultra Bond 378** within the recommended open time
- Adjust tile alignment within 10 mins
- Tile Grout **Fill Series** can be applied after 8 hours

### CURING

- Natural air curing is sufficient
- Do not move, press or adjust the tile within 6 hours
- Pull-off test is recommended at least after 7 days curing

## SAFETY

Wear NIOSH approved facemask during mixing as to avoid inhaling of dust.

May cause irritation to eyes and skin:

1. In case of contact with eyes, rinse immediately with water and seek for medical advice if needed.

#### HEAD OFFICE:

#### FACTORY: