

TECHNICAL DATA SHEET

SMARTBOND C1

Tile Adhesive C1

PRODUCT DESCRIPTION:

SMARTBOND C1 TILE ADHESIVE conforms to PNS ISO 13007-1:2014 type C1 with Standard Adhesion for permanently bonding 30x30 and below ceramic, and earthenware tiles on floors. **SMARTBOND C1 TILE ADHESIVE** is a ready-to-use, cement-based tile adhesive formulated with lightweight fillers to provide many benefits. **SMARTBOND TILE ADHESIVES** are 50% lighter than conventional tile adhesives, making them easier to transport. Special additives were also added to provide easy mixing, excellent workability, low dust emission, and no slump or shrinkage to achieve optimum strength and adhesion. It was developed to provide an extended open time/ pot life for longer times working requirements. Its excellent water retention technology prevents early hydration and tile debonding.

Tile Adhesive Classification According to Philippine National Standard following ISO 13007-1:2014

Classification	Tensile Adhesion Strength Requirement
C1	> 0.5 N/mm ²
C2	> 1.0 N/mm ²

CUSTOMER BENEFITS:

- Provides 10% more coverage than a traditional tile adhesive
- Endures Structural movement
- Prevents tile de-bonding
- Reduces the weight of the structure and cost of transport
- Follows European standard
- Green building

INSTRUCTION FOR USE

PREPARATION

All substrates must be clean, dry, and strong enough to support the weight of the tiles and adhesive. Remove all dust, dirt, oil, grease, paint, and other contaminants that may affect adhesion. New render/screed surfaces must be allowed to cure for at least 7 days while new concrete must be cured for 6 weeks.

MIXING

Pour 6.8 – 7.2 liters of water into a clean container. Slowly add 0.015cbm of tile adhesive and mix with a slow-speed mechanical mixer until a homogenous and lump-free paste is obtained. Allow the mix to stand for 3 minutes and re-stir before use.

APPLICATION

The tile adhesive is spread on the substrate to a uniform thickness. The correct notched trowel size to use will depend on the type and size of the tiles.

Lay the tiles onto the adhesive and apply firm pressure to achieve good contact with the adhesive.

Regularly check the tile adhesive surface to ensure skinning has not occurred before laying the tiles.

If skinning has occurred, rework the adhesive before laying the tiles. The adhesive will remain workable for 90 minutes, has an open time of 20-30 minutes, and can be grouted after 24 hours after laying the tiles.

Only apply to areas that can be tiled in the adhesive's open wet time.

CLEANING

Remove excess adhesive with a damp cloth before the material has been set. After setting, cleaning becomes difficult but can usually be helped mechanically. Once the tiling is complete, do not disturb for at least 4 hours. Wait 24 hours after grouting before opening the area to dry service and 7 days for wet service.

Note: *Setting time, open time, and pot life of the adhesive are affected by temperature. In cold weather, setting time will be slower, and in warm weather setting time will be faster. Do not apply in temperatures above 35°C and below 5°C.*

COVERAGE

.015cbm bag of **SMARTBOND C1** mixed with 6.8 – 7.2 liters of water will cover 5 sqm @ 3 mm thickness.

Note: *The coverage rates provided above are for guidance purposes only. Actual usage may vary depending on the specific substrate conditions and application methods.*

PACKAGING

SMARTBOND C1 is supplied in .015cbm bag.

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STORAGE AND HANDLING

SMARTBOND C1 has a shelf life of 12 months if maintained in dry storage conditions in unopened bags.

PRECAUTIONS

HEALTH & SAFETY

Gloves should be worn during application. Care should be taken to avoid inhalation of dust and contact with the eyes.

Refer to the Safety Data Sheet (SDS) for complete safety information on handling the product.

SMARTBOND C1 is non-flammable.

Refer to the latest Safety Data Sheet (SDS) for comprehensive safety information on the proper handling of this product.

WARRANTY AND DISCLAIMERS

The information provided in this technical data sheet is based on our best knowledge and testing methods. Any product use outside of specifications or improper storage or installation voids any warranty. Users are encouraged to conduct their own testing to assess product suitability. Always consult the product's safety data sheet (SDS) for safety guidelines and follow recommended precautions. We reserve the right to update this data sheet without notice, and users should ensure they have the latest information.