



ADVAMIX

Advanced Building Materials

AdvaBond - Large & Flex

Product Description

AdvaBond-Large & Flex is a highly flexible, sag-resistant, polymer-modified cementitious adhesive formulated to meet the requirement of European standard 12004 (C2TES1) with no vertical slip and extended open time characteristics for installation fully vitrified large tile format, stoneware and natural stone. **AdvaBond-Large & Flex** is an improved deformable cementitious adhesive and excellent for installation of heavy and large format tiles on facades, steps/stairways and swimming pools. Suitable for large- and mega-format units with edge length upwards of 120 cm on walls and floors.

Features and Benefits

- Pre-blended product ready to use, just mix with water with long open time properties .
- Meets the classification requirements for C2TES1 adhesives according to European standard 12004 and ANSI A118.4.
- For walls and floors, indoors and outdoors .
- Ideal for installation tile in swimming pools and wet areas .
- High tensile adhesion strength at different site conditions .
- Low VOC .
- Highly flexible & deformable adhesive for large tile format .
- Versatile and compatible with different substrates .

Where to use

- For installation of earthenware, stoneware and fully vitrified stoneware tiles, ceramic split tiles, clinker floor tiles, mosaic, discoloration-resistant natural stone units, cast stone units and terracotta coverings .
- For facades, residential, commercial and industrial facilities, swimming pools and for laying large-format units.
- For installation of glass mosaics and tiles over tiles .
- Suitable for interior and exterior tile/stone installation .

Limitations

- Don't allow the product to come in contact directly with any of non-recommended surfaces such as metal, glass, vinyl, aluminum. etc.

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Application procedures

AdvaBond-Large & Flex was tested according to EN 12004 & ANSI A118.4 standards. The test results reported in the following table:

Test	Test Method	Specification	Results
Determination of open time by tensile adhesion strength.	EN 12004 (8.1) & ANSI A118.4	≥ 75psi (0.5MPa) at 30 minutes.	Complied with standards values
Determination of slip or sag on vertical surfaces	EN 12004 (8.2) & ANSI A118.4	≤ 0.5 mm	
Determination of Tensile adhesion strength for cementitious adhesives	EN 12004 (8.3)	≥ 150 psi (1 N/mm ²)	
Shear strength to ceramic tile (glazed wall tile)	ANSI A118.4	≥ 300psi (2.07MPa)	
Deformable adhesive (S1): transverse deformation	EN 12004 (8.6)	≥ 2,5 mm and < 5 mm	

Note: the above performance properties are based on controlled laboratory conditions. However, there may be some variation depending on the ambient weather and site conditions.

Application instruction

Substrate preparation

AdvaBond-Large & Flex can be applied on clean, level, load-bearing, and compacted substrates, free of any substance that reduce adherence such as grease, paint coating, oil, dust, bitumen, and other loose materials.

Mixing

Add the **AdvaBond-Large & Flex** powder to water (Approx. 5.56- L) in a clean container, whilst stirring and mixing thoroughly to give a slump-free, easily worked mortar. Let the mix rest for 1 min then remix again before using.

Application

Apply the mixed mortar paste with a suitable notched trowel with 45 degrees by wet-on-wet technique over the substrate and spread not more than 3 sqm at a time, or enough to enable tiling to be completed within the open time of the adhesive. Comb the adhesive to the required depth and fix the tile or stone. Place the tiles or stone during the open time of adhesive and press firmly into the position with a slight twisting action, checking periodically that good is maintained with the back of each tile. Remove and dispose any unworkable paste. Fresh excess mortar can be removed with water.

Tools cleaning Tools and fresh paste of **AdvaBond-Large & Flex** can be washed by clean water.

Packaging & Colors available **AdvaBond-Large & Flex** is available in 20 kg in plastic bags / White and grey.

Technical recommendation

- Concrete moisture content should be within 3 %.
- Cement-based plasters, moisture residues in the range of 1.5 %.
- Absorbent substrate shall be primed with a suitable primer from the Adva-Latex range and left to completely dry before the installation process.
- Substrates should not be subject to any mechanical movement that affect the adhesion.
- For improvement in the overall properties of the bonding strength, water resistance, and flexibility performance (S2 requirement) . Adva-latex P liquid can be mixed with the water required for one bag e.g. (4.5 liters of water mixed with 1.0 liter of Adva-latex P).
- For the installation of a fully vitrified tile especially the Porcelain tile, Back buttering is highly recommended.



Storage and shelf life

AdvaBond-Large & Flex has a shelf life of 12 months in sealed / unopen bags when stored in dry area and standard storage conditions.



HEALTH & SAFETY PRECAUTIONS

This product contains cement, and contact with skin may cause irritation. It should not be inhaled, and a properly designed and maintained face mask should be used whilst handling, pouring and mixing the powder. Avoid contact with the product by working carefully, using a barrier cream and wearing protective gloves. If any contact does occur, wash thoroughly with soap and water. Use eye protection. Avoid contact with eyes, if such contact occurs irrigate with water for 20 minutes and seek medical advice. If mistakenly ingested, drink plenty of clean water and seek medical advice.