

# ADHERE FLEX F1

DEFORMABLE TILE ADHESIVE FOR EXTERIOR USE

## 1. DESCRIPTION

**ADHERE FLEX F1** is an improved construction tile adhesive with extended open time, reduced vertical slippage and highly deformable (**C2TE S2** classification according to EN 12004-1), formulated from mixed binders, fine silica sands and additives. **ADHERE FLEX F1** is marketed in white colour.

## 2. FIELD OF USE

**ADHERE FLEX F1** is specially designed for fixing large-sized and special low absorption ceramic tiles on exterior walls and floors, on cementitious substrates such as renders, screeds or concrete.

Can be used for fixing ceramic over ceramic on outdoor pavements for large pieces with low absorption. On facades up to 6 metres high, **ADHERE FLEX F1** can be used to fix ceramics on medium-sized ceramics with low absorption. It can also be used for fixing large-sized, low-absorbing ceramic tiles on ISOVIT or ISODUR systems. Recommended for facades subjected to strong hydrothermal stresses, minimizing the occurrence of carbonation effect (efflorescences). Can be used for large-format ornamental stone fixing on interior walls and floorings, and for medium-sized fixing on exterior facades.

For non-common uses or on particular substrates, we advise you to contact our Technical-Commercial Service.

## 3. PRODUCT CHARACTERISTICS

Powdered product	Value	Standard
Colour	White	-
Granulometry	< 1,0 mm	-
Paste product	Value	Standard
Mixing water	34,5 % ± 1,0 %	-
Hardened product	Value	Standard
Initial adhesion to traction	≥ 1,0 N/mm <sup>2</sup>	EN 12004-1
Adhesion to traction after immersion in water	≥ 1,0 N/mm <sup>2</sup>	EN 12004-1
Adhesion to traction after the action of heat	≥ 1,0 N/mm <sup>2</sup>	EN 12004-1
Hardened product	Value	Standard
Adhesion to traction after ice-thaw cycles	≥ 1,0 N/mm <sup>2</sup>	EN 12004-1
Adhesion to traction after extended open time (after 30 min.)	≥ 1,0 N/mm <sup>2</sup>	EN 12004-1
Slippage	≤ 0,5 mm	EN 12004-1
Transverse deformation	≥ 5,0mm	EN 12004-1
Reaction to fire	Class E	EN 12004-1

## 4. APPLICATION

### a) Substrate preparation

The substrates must be clean and free of dust, release oils, efflorescences and/or any other materials that may affect the adhesion. They must also be properly levelled, flattened and cohesive. Levelling can be checked using a 2m metal ruler.

On very absorbent substrates, they should be moistened before application. However, they should not be saturated with water at the time of application.

For more demanding fixing on walls, the use of **REDUR MAX FORCE** render is recommended, and on floorings it is recommended to apply the screed **PLAN FORCE**.

Always provide for placement and/or fractioning joints, so that they can absorb possible movements in the coating.

The ceramic coating must observe the structural joints existing in the substrate, such as expansion joints. These must be made watertight by applying a suitable sealant.

If the substrate to be fixed is an old ceramic, make sure it is resistant, levelled and that all parts are well fixed to the substrate. If not, remove the loose parts and level the coating. If necessary, wash the substrate with suitable detergents in order to remove any grease and residues accumulated on the surface.

### b) Preparation of mixture

**ADHERE FLEX F1** should be mixed with 8.5 to 9.0 litres of clean potable water for each 25 kg bag, with a low speed mixer, until a homogeneous and lump-free paste is obtained.

Allow the mixture to sit for 5 min and mix again.

### c) Application

Spread the mixture on the substrate on small spreads, suitable for atmospheric temperature and humidity conditions. Level the surface obtained with notched trowel suitable for the piece to be laid. The piece to be fixed must be pressed against the substrate with the aid of a rubber mallet, until the tile adhesive strands are completely crushed.

Do not proceed with the fixing when the open time is exceeded (see point 3), which is confirmed by the presence of a film of different shade that appears on the surface of the tile adhesive.

The joints between ceramics shall be at least 2 mm apart indoors and 5 mm apart outdoors.

When fixing polished natural stones, sanding should be carried out on the back of the piece to improve the adhesion conditions.

For more demanding fixing outdoors or for fixing extra-large pieces indoors, use the double fixing process. For fixing of tiles weighing more than 40 kg/m<sup>2</sup>, mechanical fixing of the parts is recommended.

## d) Consumption

Theoretical consumption	Fixing method	
	Simple fixing	Double fixing
<b>Notched trowel no. 6</b>	4,0 kg/m <sup>2</sup>	6,0 kg/m <sup>2</sup>

## e) Restrictions

**ADHERE FLEX F1** should never be applied in isolated portions, but rather covering the entire substrate to be coated with ceramic / natural stone. The same applies to the back of the pieces to be bonded when double fixing is performed.

**ADHERE FLEX F1** should not be applied when the ambient temperature and/or the substrate is below 5°C or above 30°C. Fixing should not be done outdoors with adverse weather conditions during or within 24 hours after application.

In cases of strong exposure to wind, the facades must be protected in order to minimize its influence.

## f) Complementary Advices

- The mixing water must be free of any impurities (clays, organic matter, etc.) and drinking water should be preferably used;
- No mortar that has started its open time should be applied. Do not soften mortars by adding water after preparation;
- Do not add any other products to the mortar. **ADHERE FLEX F1** should be applied as it is shown in its original packaging.

## 5. PACKAGING AND VALIDITY

### Packaging

25 kg paper bags in plasticized pallets of 60 bags.

### Validity

12 months provided the conditions of the original packaging remain unaltered and in good storage conditions, protected from extreme temperature and humidity.


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## 6. HEALTH AND SAFETY

(DOES NOT REPLACE CONSULTATION OF THE PRODUCT SAFETY DATA SHEET)

- Irritating to eyes, respiratory system and skin;
- May cause sensitization in contact with skin;
- Do not breathe dust;
- Avoid contact with skin and eyes;
- If it comes in contact with eyes, rinse immediately and abundantly with water and seek a specialist advice;
- Use protective clothing and appropriate gloves;
- Keep out of children's reach.

  04	<b>ADHERE FLEX F1</b>
	EN 12004-1
	C2TE S2 - Improved adhesive cement with reduced slippage, extended open time and highly deformable for outdoor applications.
	Declaration of Performance <b>DOP.01006B</b> (white) Notified Lab no. 0855

*Being the conditions of applying our products out of our reach we do not take responsibility for its misuse. It is the customer's duty to verify the suitability of the product for the intended purpose. In any case, our responsibility is limited to the value of the goods supplied by us. The information contained in the present data sheet may be altered without prior notice. In case of doubt and if you need any further advice please contact our Technical Services.*

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