

# ADHERE FLEX GT

DEFORMABLE ADHESIVE CEMENT FOR EXTERIOR USE

## 1. DESCRIPTION

**ADHERE FLEX GT** is an improved construction adhesive with extended open time and reduced vertical slippage, deformable (**C2 TE S1** classification according to EN 12004-1), formulated from mixed binders, limestone and siliceous aggregates and additives. **ADHERE FLEX GT** is marketed in grey and white.

## 2. FIELD OF USE

**ADHERE FLEX GT** is specially designed for bonding large-sized and low absorption ceramic tiles on exterior walls and floorings, on cementitious substrates such as plaster, screed or concrete.

Can also be used for bonding ceramic tiles of medium-large size and low absorption on ETICS or ISODUR, however in these cases prior contact with our Technical Commercial Service is recommended.

ADHERE FLEX GT is also recommended for bonding ceramic-to-ceramic on interior walls and floorings and small and medium-sized pieces on exterior floorings. Recommended for facades subjected to strong hydrothermal stresses, minimizing the occurrence of carbonation effect (droplets).

Can be used for large-format ornamental stone bonding on interior walls and floorings, and for outdoor medium-sized bonding on facades up to 6m high.

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	Grey or White	-
Granulometry	< 1,0 mm	-
Paste product	Value	Standard
Mixing water	29,0 % ± 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
Hardened product	Value	Standard
Adhesion to traction after the action of heat	≥ 1,0 N/mm <sup>2</sup>	EN 12004-1
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.)	≥ 0,5 N/mm <sup>2</sup>	EN 12004-1
Transverse deformation	≥ 2,5mm	EN 12004-1
Slippage	≤ 0,5 mm	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 bonding on walls, the use of **REDUR MAX FORCE** plaster is recommended, and on floorings it is recommended to apply the filler layer with **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 bonded is an old ceramic covering, make sure it is resistant, levelled and that all parts are well adhered 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 GT** should be mixed with 7.0 to 7.5 litres of clean drinking 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 a comb or notched trowel suitable for the piece to be laid. The piece to be bonded must be pressed against the substrate with the aid of a rubber mallet, until the cement adhesive strands are completely crushed.

Do not proceed with the bonding 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 adhesive cement.

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

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

For bonding ceramic-to-ceramic and bonding elements with an area greater than 900 cm<sup>2</sup> outdoors, use the double bonding method.

For bonding of coverings weighing more than 40 kg/m<sup>2</sup>, mechanical fixing of the parts is recommended.

### d) Consumption

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

## e) Restrictions

**ADHERE FLEX GT** 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 bonding is performed.

**ADHERE FLEX GT** should not be applied when the ambient temperature and/or the substrate is below 5°C or above 30°C. Bonding 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 GT** 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.

## 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;

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- 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.

  <b>04</b>	<b>ADHERE FLEX GT</b>
	EN 12004-1
	C2 TE S1 - Improved adhesive cement with reduced slippage, extended open time and deformable for indoor and outdoor applications.
	Declaration of Performance <b>DOP.01005B</b> ((white) / <b>DOP.01005C</b> (grey)
	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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