

ADHERE FLEX TT

FLEXIBLE ADHESIVE CEMENT FOR EXTERIOR USE

1. DESCRIPTION

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

2. FIELD OF USE

ADHERE FLEX TT is specially designed for bonding medium and medium-large ceramic tiles, of medium to low absorption, on exterior walls and floorings, on cementitious substrates such as plaster, screed or concrete

Can also be applied on interior floorings with radiant floor heating system, on cement-base waterproofing type **HIDROSTOP FLEX** or on plasterboard, using the **MICRO ART AD 21** primer.

Can be used for bonding of medium format ornamental stone on interior walls and floorings.

ADHERE FLEX TT is recommended for medium-sized ceramic-to-ceramic bonding on interior walls and floorings. On façades, it is recommended for bonding ceramics on plaster up to 6 metres 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	28,0 % ± 1,0 %	-
Hardened product	Value	Standard
Initial adhesion to traction	≥ 1,0 N/mm ²	EN 12004-1
Adhesion to traction after immersion in water	≥ 1,0 N/mm ²	EN 12004-1
Hardened product	Value	Standard
Adhesion to traction after the action of heat	≥ 1,0 N/mm ²	EN 12004-1
Adhesion to traction after ice-thaw cycles	≥ 1,0 N/mm ²	EN 12004-1
Adhesion to traction after extended open time (after 30 min.)	≥ 0,5 N/mm ²	EN 12004-1
Slippage	≤ 0,5 mm	EN 12004-1
Reaction to fire	Class E	EN 12004-1

4. APPLICATION

ADHERE FLEX TT

FLEXIBLE ADHESIVE CEMENT FOR EXTERIOR USE

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 TT should be mixed with 6.5 to 7.0 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 indoors or bonding ceramics on floorings with a radiant heating system, use the double bonding process. For bonding coverings weighing more than 40 kg/m², mechanical fixing of the parts is recommended.

d) Consumption

ADHERE FLEX TT

FLEXIBLE ADHESIVE CEMENT FOR EXTERIOR USE

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

e) Restrictions

ADHERE FLEX TT 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 TT F1 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.

For bonding ceramics with a solar absorption coefficient $\alpha > 0.7$ outdoors, it is recommended to use deformable adhesive cements, such as **ADHERE FLEX GT** or **ADHERE FLEX F1**.

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 TT** 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.


ADHERE FLEX TT

FLEXIBLE ADHESIVE CEMENT FOR EXTERIOR USE

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	ADHERE FLEX TT EN 12004-1 C2 TE - Improved adhesive cement with reduced slippage and extended open time for indoor and outdoor applications.
	Declaration of Performance DOP.01004B ((white) / DOP.01004C (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.

Revision of January 2019
FT.01004.01