

ADHERE Ci 1.9

IMPROVED INTERIOR TILE ADHESIVE

1. DESCRIPTION

ADHERE Ci 1.9 is an extended open-time construction adhesive (classification **C1E** according to EN 12004-1), formulated from mixed binders, limestone and siliceous aggregates and additions.

ADHERE Ci 1.9 is marketed in grey and white colours.

2. FIELD OF USE

ADHERE Ci 1.9 is indicated for the fixing of medium and large-sized ceramic tiles with medium and low absorption on floors and interior walls, on cementitious substrates such as render, screed or concrete.

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; White	-
Granulometry	< 1,0 mm	-
Paste product	Value	Standard
Mixing water	25,0 % ± 1,0 %	-
Paste product	Value	Standard
Initial adhesion to traction	≥ 0,5 N/mm ²	EN 12004-1
Adhesion to traction after immersion in water	≥ 0,5 N/mm ²	EN 12004-1
Adhesion to traction after the action of heat	≥ 0,5 N/mm ²	EN 12004-1
Adhesion to traction after ice-thaw cycles	≥ 0,5 N/mm ²	EN 12004-1
Paste product	Value	Standard
Adhesion to traction after extended open time (after 30 min.)	≥ 0,5 N/mm ²	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 MAXFORCE** render is recommended, and on floors it is recommended to apply the high strength screed **PLAN FORCE**.

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

a) Preparation of mixture

ADHERE Ci 1.9 should be mixed with 6.0 to 6.5 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

b) Application

Spread the mixture on the substrate on small areas, suitable for atmospheric temperature and humidity conditions. Level the surface obtained with a 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 indoor ceramics must be at least 2 mm apart.

For fixing elements with an area greater than 900 cm² use the double fixing method. For fixing of tiles weighing more than 40 kg/m², mechanical fixing of the pieces is recommended.

a) Consumption

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

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b) Restrictions

ADHERE Ci 1.9 should never be applied in isolated portions, but rather covering the entire substrate to be coated with ceramic / ornamental stone. The same applies to the back of the pieces to be bonded when double fixing is performed.

ADHERE Ci 1.9 should not be applied when the ambient temperature and/or the substrate is below 5°C or above 30°C.

a) 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 Ci 1.9** 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	ADHERE Ci 1.9
	EN 12004-1
	C1E - Common adhesive cement with extended open time for indoor applications
	Declaration of Performance DOP.01002B ((white) / DOP.01002C (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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