

ADHERE HIDRO

TILE ADHESIVE FOR SUBMERSED OR WET AREAS

1. DESCRIPTION

ADHERE HIDRO is an improved construction tile adhesive with extended open time and reduced slippage (C2TE classification according to EN 12004-1), formulated from mixed binders, limestone and siliceous aggregates and additives. **ADHERE HIDRO** is marketed in white colour.

2. FIELD OF USE

ADHERE HIDRO is especially suited for bonding ceramic tiles or natural stone of medium-large format in areas permanently submerged in water and wet areas, such as swimming pools, tanks, jacuzzis and fountains. It is suitable for grouting any type of medium-large ceramic tiles, including glass tessellation and mosaic.

ADHERE HIDRO can work as a adhesive mortar and at the same time as a grouting mortar, allowing tile adhesion and grouting in contact with sweet and/or salt water, always ensuring a PH adequate for human skin.

ADHERE HIDRO can be applied on common cementitious substrates, such as render, screed and concrete, as well as on waterproofing mortars like **HIDROSTOP / HIDROSTOP FLEX**.

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	30,0 % ± 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
Adhesion to traction after the action of heat	≥ 1,0 N/mm ²	EN 12004-1
Powdered product	Value	Standard
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

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 floors 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.

In swimming pools, if the substrate is render or levelling screed, ensure that it is perfectly adhered to the base by means of a general inspection. Hollow areas must be replaced.

In permanently submerged areas, waterproofing must be ensured with **HIDROSTOP FLEX**, as the ceramic coating has only a finishing function.

b) Preparation of mixture

ADHERE HIDRO should be mixed with 7.0 to 7.5 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.

c) 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.

Ceramics must not be wetted and joints must be provided with a minimum spacing of 5 mm. For above medium format pieces, resort to double bonding.

For swimming pools or other types of reservoirs, wait 7 days after grouting, before filling with water.

d) Application

The **ADHERE HIDRO** mortar is applied with a rubber trowel, stretching the paste in the diagonal direction of the pieces.

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.

Once the product is completely dry, clean with a damp sponge and then remove the surplus powder with a dry cloth.

a) Consumption

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

b) Restrictions

ADHERE HIDRO should never be applied in isolated portions, but rather covering the entire substrate to be coated with ceramic or ornamental rock. The same applies to the back of the pieces to be bonded when double bonding is performed.

ADHERE HIDRO 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 dry weather or strong exposure to wind, the facades must be protected in order to minimize its influence.

c) 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 HIDRO** should be applied as it is shown in its original packaging.

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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;
- 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 HIDRO
	EN 12004-1
	C2TE - Improved adhesive cement with reduced slippage and extended open time for applications in wet areas.
	Declaration of Performance DOP.01008B
	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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