



ADETEX

One-component cementitious adhesive in powder form for laying absorbent ceramic tiles



TECHNICAL FEATURES

ADETEX is a white or gray powder adhesive, consisting of high-strength cements, silicon / quartz mineral fillers of selected grain sizes and special additives, mixed together according to research by the **HERAKEM** laboratory, to give the product its effectiveness. performance for which it was designed.

FIELD OF APPLICATION

ADETEX is intended for civil construction for residential, industrial, commercial, indoor and outdoor use. Suitable for floor and wall installation, for absorbent and not large format tiles. In particular, the main field of application is bonding to the interior of double-fired, single-fired and terracotta ceramic tiles. **ADETEX** is suitable for application on walls plastered with traditional cement-based or lime-based plasters or pre-mixed gypsum-based plasters, desolidarized and floating cementitious screeds, anchored, properly cured and with an adequate relative humidity content. For applications on gypsum surfaces, a surface pre-treatment with **HERALAX AC**.

PREPARATION OF THE SUBSTRATE

The laying surface must be seasoned, resistant, continuous, cohesive, flat, free of laitance, dust or inconsistent parts; greases, oils, paints, waxes and anything incoherent that may hinder adhesion must be removed. The substrates must be cured and dry, they must not be subject to shrinkage following the laying of the tiles. Restore excessive unevenness with **HERARAS ONE** smoothing compound for thicknesses not exceeding 3 mm, for higher thicknesses and for a quick intervention use **HERAGROUT MONO** or self-leveling mortars such as **HERAPLAN 10**. In the case of excessively hot surfaces due to exposure to sunlight, it is recommended to moisten them with water avoiding superficial stagnation.

MIX PREPARATION

Mix with $22 \div 24\%$ clean water equal to $5.5 \div 6.0$ liters of water per 25 kg of product. Slowly add the powder to the water. Mix with a low-speed drill fitted with a mixing propeller until a homogeneous, lump-free mortar is obtained. Leave the mixture to rest for 5 minutes and mix again briefly. The adhesive thus prepared has a usage time of approximately 6 hours.

APPLICATION

Apply the adhesive with a special notched trowel, whose dimensions of the teeth will depend on the type and size of the tiles to be glued, so that total coverage of the back of the tiles is guaranteed. For better adhesion, it is advisable to first spread a thin and uniform layer of adhesive on the substrate using the smooth part of the notched trowel, and then to apply a second layer of the desired thickness with the toothed part. Apply the tiles by exerting adequate pressure and imparting a slight translational movement to them. The tiles must only be laid within that time interval in which the spread adhesive is still fresh, i.e. it has not yet formed a surface skin. This time interval is called the "open time" of the adhesive, and is a function of the environmental conditions. If the open time has been exceeded and the spread adhesive has formed a surface film, it is necessary to go over with the notched trowel to "refresh" it. Absolutely avoid wetting the adhesive on the surface as this would form an anti-adhesive film of water, irreparably compromising the adhesion. The tiles normally do not need to be wet before laying; only in the case of tiles with dusty backs it is recommended to wash them by dipping them for a few moments in clean water; wait for the veil of water to disappear before placing them. On gypsum-based substrates, pre-treatment with **HERALAX AC** is absolutely necessary. After laying, protect the covering for at least $24 \div 48$ hours from rain and washout and for at least 7 days from direct sunlight. In the case of installation in the winter months, it is necessary to protect from frost for at least 48 hours.

JOINT

The tiles can be grouted after $4 \div 8$ hours on the wall and after 24 hours on the floor with the special **HERAKEM** cementitious sealants, available in different colors.



ITEM OF SPECIFICATIONS

Absorbent ceramic floors and coatings must be laid with a cement-based powder adhesive of class "C1 according to EN 12004" type **ADETEX** (produced by **HERAKEM**) which allows a thickness of up to 5 mm on cement-based substrates.

WARNINGS

Do not use in the following cases:

- On supports subjected to deformations or thermal and mechanical stresses.
- On heated floors or overlapping on old ceramic floors.
- For laying marble and natural stones.
- On plasterboard walls.
- On metal, PVC, rubber or linoleum surfaces, wood.
- For laying tiles that require an adhesive thickness greater than 5 mm
- Where rapid walkability is required
- For laying non-absorbent ceramic tiles.
- For laying large formats.
- On precast and cast concrete structures.
- For laying on gypsum substrates and ready-made gypsum-based plasters, first apply a coat of **HERALAX AC** before spreading the adhesive.

TECHNICAL DATA (at + 23 ° C and 50% R.H.)

Appearance	powder	Open time	≥ 20 min*
Color	gray and white	Recording time	≥ 30 min*
Density of the powder	1500 kg/m³	Walkability	24 hours*
Storage	12 months in original dry packaging	Ready for use	14 days*
Flammability	no	Initial adhesion	≥ 0,5 N/mm²
Customs heading	3824 5090/0	Adhesion after heat action	≥ 0,5 N/mm²
Mixing water	about 23%	Adhesion after immersion in water	≥ 0,5 N/mm²
Density of the mix	1600 kg/m³	Adhesion after freeze-thaw cycles	≥ 0,5 N/mm²
Pot life of mix	about 6 hours	Consumption	from 2.5 to 4.5 kg/m²
Application temperature	from +5°C to +35°C	Packaging	25 kg bag

PRODUCT FOR PROFESSIONAL USE

*DATA DETECTED UNDER REGULATORY CONDITIONS

This technical data sheet is based on the knowledge acquired thanks to our experience. We reserve the right to modify the data contained therein as a result of technical improvements and advances. Considering the different materials and different processing techniques, not subject to our direct control, we cannot assume any responsibility for the use of these indications. **We therefore recommend that you carry out sufficient tests yourself and consult our Technical Assistance service.**