



# HERACOLL POWER

One-component cementitious adhesive with high mechanical performance for laying ceramic tiles and porcelain stoneware.



## TECHNICAL FEATURES

**HERACOLL POWER** is a high-performance cementitious adhesive in white or gray color, consisting of Portland cement with high mechanical resistance, selected silico-quartz aggregates and a particular mixture of synthetic resins and special chemical additives that improve its technical characteristics and final mechanical performance. Due to its high adhesive properties, **HERACOLL POWER** creates an intrinsic bond between the substrate and the coating while the high resistance to vertical sliding and the long open time enhance its workability and ease of application.

## FIELD OF APPLICATION

Eligible for laying indoors and outdoors, on walls and floors, of all types of absorbent and non-absorbent ceramic tiles and mosaics such as single-fired, double-fired, klinker, terracotta and natural stone (as long as they are dimensionally stable and not subject to staining). **HERACOLL POWER** is designed for gluing porcelain stoneware and can also be used for spot gluing of insulating panels in polystyrene or expanded polyurethane, rock or glass wool. **HERACOLL POWER** is suitable for all types of cement-based substrates, as long as they are cured and dry; for applications on gypsum or anhydrite surfaces it is necessary to pre-treat the surface with the water-based primer **HERALAX AC**.

## PREPARATION OF THE SUBSTRATE

The substrates must be cured and dry, free from dust, oils and greases, free from rising damp, free from crumbly and insubstantial parts or not perfectly anchored. The bottom must be stable, non-deformable, without cracks and have already completed the hygrometric shrinkage of maturation.

In the case of substrates under direct solar radiation, it is advisable to moisten them abundantly with a sponge in order to cool them; wait for the surface water to evaporate before starting the installation.

Restore excessive unevenness with **HERARAS ONE** for thicknesses not exceeding 3 mm, for higher thicknesses and for quick intervention use **HERAGROUT MONO** or self-leveling mortars such as **HERAPLAN 10** for thicknesses up to 10 mm.

## MIX PREPARATION

Mix with 25 ÷ 27% clean water equal to 6.2 ÷ 6.7 liters of water per 25 kg of product. Slowly add the powder to the liquid. 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 on the substrate using a notched trowel of adequate size to obtain complete wetting of the back of the tiles. For better adhesion, it is advisable to spread a uniform layer of adhesive on the substrate using the smooth part of the notched trowel, then start working the adhesive with the notched side. Apply the tiles, free from dust, by exerting adequate pressure and imparting a weak translational movement to them. For outdoor installations, for large formats and for demanding applications, to obtain an adhesive-tile contact extended to the entire bonding surface, the use of the double-buttering technique (spread a thin layer of adhesive also on the back of the tile). 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 is it necessary to wash them by dipping them for a few moments in clean water; wait for the film of water to disappear from the back before placing them. On gypsum-based substrates, pre-treatment with **HERALAX AC** is absolutely necessary.

After laying, protect the covering for at least 24 ÷ 48 hours from rain and washout and for at least 7 days from direct sunlight. In the winter months it is necessary to protect from frost for at least 48 hours.



## JOINT

The tiles can be grouted after 4 ÷ 8 hours on the wall and after 36 – 48 hours on the floor with the special **HERAKEM** cementitious sealants, available in different colors.

## CLEANING

The tools used for installation must be cleaned with water before the adhesive hardens; subsequently, cleaning can only take place by mechanical removal. Any adhesive residues on the surface of the tiles must also be cleaned with a damp cloth before the adhesive sets.

## ITEM OF SPECIFICATIONS

Ceramic floors and wall coverings must be laid with an improved cement-based powder adhesive, with no vertical slip and extended open time, class “**C2TE**” according to the current standard **EN 12004**” type **HERACOLL POWER** by **HERAKEM**.

## WARNINGS

### Do not use in the following cases:

- On supports subjected to deformations or thermal or mechanical stresses.
- 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.
- Overlapping on old ceramic floors or on prefabricated concrete structures.
- On smooth surfaces.
- For laying large formats.
- For laying on gypsum substrates and ready-made gypsum-based plasters, first apply a coat of **HERALAX AC** before spreading the adhesive.
- In case of need, contact our Technical office.

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

|                         |   |                                   |                     |
|-------------------------|---|-----------------------------------|---------------------|
| Appearance              | fine powder                             | Walkability                       | 36 - 48 hours*      |
| Color                   | gray and white                          | Ready for use                     | 14 days*            |
| Density of the powder   | about 1500 kg/m³                        | Initial adhesion                  | ≥ 1 N/mm²           |
| Solid residue           | 100%                                    | Adhesion after heat action        | ≥ 1 N/mm²           |
| Storage                 | 12 months in original dry packaging     | Adhesion after immersion in water | ≥ 1 N/mm²           |
| Flammability            | no                                      | Adhesion after freeze-thaw cycles | ≥ 1 N/mm²           |
| Customs heading         | 3824 5090/0                             | Resistance to humidity            | excellent           |
| Mixing water            | 6.2 ÷ 6.7 liters of water per 25 kg bag | Aging resistance                  | excellent           |
| Density of the mix      | about 1600 kg/m³                        | Resistance to solvents and oils   | excellent           |
| Pot life of mix         | 6 hours*                                | Resistance to acids and alkalis   | poor                |
| Application temperature | from +5°C to +30°C                      | Consumption                       | from 2,5 to 5 kg/m² |
| Open time               | ≥ 30 min.*                              | Packaging                         | 25 kg bag           |
| Recording time          | ≥ 40 min*                               |                                   |                     |

## 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.**