

Product data



Verna tile adhesive2

Description: **Verna tile adhesive3** is cementitious adhesive for ceramic tiles composed of white or grey powder made from cement, selected graded sand, synthetic resins and special admixtures.

Standard: Complies with Euro norm EN 12004 (C1E)

Recommended use:

- Interior and exterior bonding of ceramic tiles, mosaics, single-red and double-red tiles for floors walls and ceilings.
- Overlaying ceramic and stone on existing floors (ceramic, marble, etc.).
- Bonding floors subjected to intense traffic

Technical properties:

- Verna tile adhesive3 when mixed with water, becomes an easily workable mortar, that can be applied even vertically without slumping and without letting the tiles slip.
- Verna tile adhesive3 hardens without appreciable shrinkage attaining a good resistance,
- Verna tile adhesive3 adhering perfectly to all materials normally used in the building industry.

Consistency: powder
Color: white or grey
Bulk density: 1300 kg/m³
Dry solids content: 100%
Mixing ratio: 23-25 parts of water for every 100 parts by weight of Verna tile adhesive3.
Consistency of mix: pasty
Density of mix: 1400 kg/m³
pH of mix: Over 12
Pot life of mix: 6- 8 hours

Application temperature: +5°C to +35°C
Open time: > 20 minutes (acc to EN 1346)
Adjustment time: approximately 45 minutes
Grouting joints in wall: after 3-6 hours
Grouting joints in floor: after 24 hours
Set to foot traffic: 24 hours
Ready for service: 14 days

Adhesion:	initial adhesion (28 days)	after application of heat source	after immersion in water	after freeze-thaw cycles
	1.0 N/mm ²	0.6 N/mm ²	0.8 N/mm ²	0.9 N/mm ²

Acid & alkalis Resistance: Poor

solvents & oil Resistance: excellent
Damp Resistance: excellent
Ageing Resistance: excellent
service temperature: -30°C to +90°C

Application details:

- Substrate preparation:** The substrate must be at, free of contamination, loose particles, grease, oils, paints, wax and sufficiently dry. Cement substrates should not continue to shrink after the installation of the ceramic tiles. Renders must cure at least one week for each one cm thickness and cement screeds must have an overall cure time of at least 4 weeks, Concrete substrates must be at least 6 weeks old.
Dampen with water to cool surfaces which have become heated from exposure to sunlight.
Gypsum plaster and anhydrite screeds must be perfectly dry, sufficiently hard and free from dust. Mechanically abrade anhydrite screeds to remove all laitance, vacuum and prime. It is essential that they be treated with Primer G (neat) or Eco Prim T Plus (diluted 1:2 with water).
- preparation of the mix:** Verna adhesive3 must be mixed with clean water to obtain a homogenous paste free of lumps, after some minutes of resting, it must be re-mixed, and the paste is then ready for use.
The quantity of water to be used is 23-25 parts per 100 parts (by weight) equal to 5.75-6.25 liters of water for 25 kg of Verna adhesive3.
The mix, produced in this way, is workable for at least 6 hours.
- spreading the mix:** Verna adhesive3 is applied with a notched trowel onto the substrate. Choose a trowel that will give a coverage to the back of the tiles of at least 65-70% for walls or for internal light foot traffic. For heavy traffic and for external application, the coverage must be 100%.
To obtain good adhesion to the substrate the following system is recommended: first apply a thin coat of Verna adhesive3 using the smooth side of the trowel and immediately afterwards apply the desired thickness of Verna adhesive3 using the toothed side of the trowel. In particular:
- for mosaics up to 5x5 cm (consumption 2 kg/m²);
 - for normal ceramic coverings (consumption 2.5-3 kg/m²) is recommended;
 - for substrates that have an irregular surface or tiles with a very rough back (consumption approx. 5 kg/m²) is recommended;

Product data



·in the case of external ceramic floor and wall tiles subject to frost or in difficult applications, Verna adhesive3 must also be applied on the back of the tiles (back-buttering method).

-bonding tiles:

It is not necessary to wet the tiles before installation; only in the case of very dusty backs washing is recommended, by quickly immersing them in clean water. The tiles must be installed in the normal way, placing them firmly to ensure good contact with the adhesive. The open time of Verna adhesive3 in normal conditions of temperature and humidity, is 20 minutes; unfavorable environmental conditions (strong sun light, drying wind, high temperature as well as a very absorbent substrate), could drastically reduce this time to a few minutes. Therefore, one must constantly check that the adhesive has not formed a superficial skin and is still "fresh"; where there is a formation of a superficial skin the adhesive must be re-applied with the notched trowel.

Wetting the adhesive after it has produced the skin is not recommended because the water forms an anti-adhesive film instead of dissolving it.

The "adjustability" of the tiles must be carried out within 45 minutes after installation.

Tiles installed with Verna adhesive3 must not be subject to running water or rain for at least 24 hours and must be protected from freezing weather and strong sun light for at least 5-7 days after installation.

Grouting and sealing:

Tile joints may be grouted after 4 to 8 hours on walls and after 24 hours on floors.

Seal expansion joints using a special sealant.

Set for light traffic:

Floors can take light foot traffic after approx. 24 hours.

Ready for use:

Surfaces are ready for use after approx. 14 days.

Package:

Verna tile adhesive S3 is supplied in 25 kg paper bags.

Storage:

Verna tile adhesive S3 may be stored for 12 months in its original packaging in a dry place.

Cleaning:

Clean tools and containers with water while Verna tile adhesive3 is still wet.

Clean the surface of wall and floor coverings with a damp cloth before the adhesive3 hardens.

Consumption:

Bonding of ceramic mosaics:

- small size tiles in general (trowel No. 4): approx. 2 kg/m²;
- normal size tiles (trowel No. 5): 2.5-3 kg/m²;
- external floor and wall coverings (trowel No. 6): approx. 5 kg/m² and over.

Caution:

Do not use Verna tile adhesive S3 in the following cases:

- on pre-cast concrete or subject to strong movement.
- on wood and wooden mixture;
- on metal, rubber, PVC and linoleum surfaces;
- For installations of tiles that require an adhesive thickness greater than 5 mm.
- On heated or existing floors.
- in cases where the surface needs to be set to light traffic quickly.

This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" available . Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User.

The Products are supplied and all technical assistance is given subject to VERNA GENERAL CONDITIONS OF SALES, DELIVERY AND SERVICE, unless otherwise expressly agreed in writing. The Manufacturer and Seller disclaim, and Buyer and/or User waive all claims involving, any liability, including but not limited to negligence, except as expressed in said GENERAL CONDITIONS for all results, injury or direct or consequential losses or damages arising from the use of the Products as recommended above, on the overleaf or otherwise. Product data are subject to change without notice and become void five years