

# STEREA GEL FLEX

**Flexible, high performance, polymer-modified, cementitious tile adhesive, with GEL Technology (Type C2TE S1)**

## Description

**STEREA GEL FLEX** is a high performance, polymer-modified, cementitious tile adhesive, with GEL Technology. It consists of high-quality white cement, limestone aggregates, resins, special additives, and hybrid thickening agents with pseudoplasticity—more fluid during application for easy use—offering a creamy texture and excellent adhesion (GEL technology). Offers reduced slip and extended open time.

It is classified as a type **C2TE S1** tile adhesive according to **EN 12004**.

## Field of Application

**STEREA GEL** can be used for adhesion of decorative tiles, absorbent and non-absorbent, small and large dimensions (e.g. granite, natural stone, porcellanato, ceramics, etc.), on floors or walls of various types, such as: concrete, cement screeds, renders, masonry mortars, painted surfaces, dry construction systems, flexible cementitious waterproofing slurries, as well as on surfaces with existing coverings (tiles, marble, mosaics), provided they are sound and well bonded.

It is ideal for demanding applications requiring high flexibility, strong adhesion, and resistance to moisture, such as: swimming pools, roofs, balconies, underfloor heating systems, industrial areas, bathrooms, shopping centers, educational facilities, and more.

Suitable for indoor & outdoor usage.

## Technical Data

### Technical Characteristics

Appearance	Cementitious powder
Colour	White
Maximum grain size	<0,71mm
Apparent density of dry mortar	1,40±0,05kg/cm <sup>3</sup>

### Application Properties@ 23oC / 50% RH

Mixing ratio	7,5-8,5kg water per 25kg	
Apparent density of fresh mortar	1,65±0,05kg/cm <sup>3</sup>	EN 1015-6
Application temperature	5°C-35°C	
Workable time	>90min @ 20°C	
Application thickness per layer	<15mm	
Open time	30-40min	EN 12004-2
Slip	<0,4mm	EN 12004-2
Wall grouting	6-8h	
Floor grouting	24h	
Consumption	1,4 – 1,5 Kg/m <sup>2</sup> /mm	

### Performance

Compressive strength	≥10N/mm <sup>2</sup>	EN 1015-11
Flexural strength	≥4,5N/mm <sup>2</sup>	EN 1015-11
Initial tensile adhesion strength	≥1,7N/mm <sup>2</sup>	EN 12004-2
Tensile adhesion strength after heat aging	≥1,9N/mm <sup>2</sup>	EN 12004-2
Tensile adhesion strength after water immersion	≥1,2N/mm <sup>2</sup>	EN 12004-2
Tensile adhesion strength after freeze-thaw cycles	≥1,9N/mm <sup>2</sup>	EN 12004-2
Transverse deformation	≥2,6mm	EN 12004-2
Reaction to fire	Class A1	EN 13501-1

# STEREA GEL FLEX

Flexible, high performance, polymer-modified, cementitious tile adhesive, with GEL Technology (Type C2TE S1)

## Directions for Use

**1. SUBSTRATE – PREPARATION:** Ensure the substrate is clean, solid, level, free of loose material, dust, oil, tar, lime, etc. On absorbent substrates: light soaking with water. On highly absorbent substrates (e.g., gypsum boards, cement boards, aerated concrete, old plasters etc.): apply micromolecular, water-based, impregnation primer, diluted appropriately, so that it penetrates the surface, avoiding film formation on the substrate.

**2. MIXING:** In a clean container with pure water, gradually add the package content, under constant stirring with a low-speed electric mixer (**7,5-8 lt water per 25Kg STEREA GEL FLEX**). Mix carefully until the mixture becomes homogeneous, without lumps and taking care not to leave any amount of package content on the walls or bottom of the container. Let the mixture stand for 5 minutes and then stir again. The mixture is ready to use for the next 90 minutes at 20°C.

### 3. APPLICATION:

Full surface adhesive application on the substrate using a notched trowel (up to 15mm thickness). Tile placement with firm pressure & ensuring good contact between adhesive and tile. Recommended for large (>900cm<sup>2</sup>) or non-absorbent tiles to apply a thin layer of adhesive on the back of the tile (back buttering method).

### 4. CLEANING OF TOOLS:

Remove as much product as possible from tools while still fresh and clean using water. When the material hardens it is removed by mechanical means.

## Important Notes

Do not apply at substrate & environment temperatures below +5°C and above +35°C.

Do not apply in case of impending rain for at least the next 24 hours after application.

It is recommended to protect the surfaces from strong air currents & direct, intense solar radiation using protective covers.

Do not add additional water and/or cement, gypsum, lime, or other materials that may affect the properties of the mortar.

Do not apply directly on surfaces made of wood, metal, plastic, PVC, aerated concrete, asphalt.

It is recommended to create expansion joints at the perimeter of the application and every 15-20 m<sup>2</sup> where necessary.

Existing construction joints should be maintained.

# STEREA GEL FLEX

Flexible, high performance, polymer-modified, cementitious tile adhesive, with GEL Technology (Type C2TE S1)

## Packaging - Colors

Available in 25Kg paper bag package (pallet of 60 bags), in white color.

## Storage

For 12 months from the date of production, in sealed, original packaging, at a cool, dry and well-ventilated place.

## Consumption

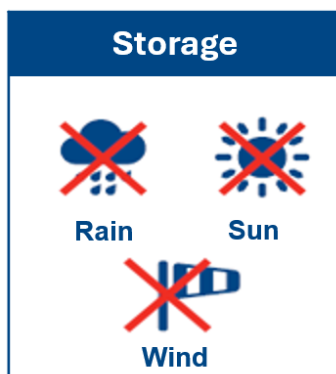
3-5 Kg/m<sup>2</sup>


It depends on the type of substrate, the method, the tools and the application conditions. Also, of the tile type and dimensions.

## Additional Notes

**INTERMIX** bagged products help keep the environment clean.

- They reduce waste and material losses
- They reduce environmental pollution.
- Their packaging is fully recyclable.



 0437	
TITAN CEMENT SA 22A Halkidos Str., 111 43, Athens, Greece 24	
EN 12004:2007+A1:2012 DOP No: INTERMIX 43 Improved deformable cementitious adhesive with reduced slip and extended open time for internal and external use	
Reaction to fire:	Euroclass A1
Bond strength as:	
- Initial tensile adhesion strength:	≥1,0 N/mm <sup>2</sup>
Durability for:	
- Tensile strength after heat ageing:	≥1,0 N/mm <sup>2</sup>
- Tensile strength after water immersion:	≥1,0 N/mm <sup>2</sup>
- Tensile strength after freeze-thaw cycles:	≥1,0 N/mm <sup>2</sup>