



## Super S1

C2TE S1 high-performance, deformable cementitious adhesive for the thin-layer bonding of stone and ceramics.



### MAIN AREAS OF USE

#### It is particularly suitable to:

Bonding tiles, ceramic lining and majolica tiles. Bonding marble and natural stone . Creating mosaics, even with glass.

#### Recommended applications:

Bonding mineral coverings of all kinds and sizes: ceramic, earthenware, stoneware, single and double-fired, clinker, etc. Bonding insulating panels (EPS, extruded, cork, etc.).

- Suitable substrates (outdoors and indoors):
- On deformable substrates
- Heated floors
- Cementitious waterproofing (*licata.waterproofing* range)
- On traditional substrates with cement-based plaster
- Standard cement-based screeds
- Laying on top of old existing floors (ceramic, porcelain stoneware, marble, etc.)
- Anhydrite screeds and gypsum plaster (primed beforehand with **Aggrappamnte LG**)
- Pools
- Fibre cement panels
- Expanded cellular cement
- Cold storage rooms

### CHARACTERISTICS

**Its smoothness and workability** reduce fatigue and laying times.

**Its adhesive strength and hygroscopicity** make it the ideal solution for bonding to all common substrates.

**The minimised vertical slip** allows for easy laying, even on vertical surfaces.

**Its extended open time** makes it workable even beyond 30 minutes after mixing.

**Its high deformability** ensures grip even on substrates subject to bending and expansion

**Compliant** with classes C2TE of Standard UNI EN 12004.

### HOW TO USE

#### Preparation of the substrate

The substrate must be clean, flat, cohesive and free of any kind of release agent.

It is always advisable to use **Tiles Eco Primer** to even out absorption.

- **New substrates:** no precautions other than those indicated.
- **Deteriorated or crumbling substrates:** Remove all crumbling or loose parts and restore correct flatness. On rigid walls, the *licata.repair* and *licata.cem* ranges are particularly suitable. Gypsum, anhydrite or plasterboard substrates must be treated with **Aggrappamnte LG**. Overlays on existing floors must include treatment with **Aggrappamnte LG** or **Tiles Eco Primer**, or washing with caustic soda or mechanical abrasion.

#### Preparing the mixture

- 1\_Pour the product into a clean container, containing  $\frac{3}{4}$  of the total mixing water.
- 2\_Mix for about 3-4 minutes using a low-speed mixer, adding the rest of the water gradually until a thixotropic, smooth and lump-free mixture has been achieved.
- 3\_Let it rest for about 10 minutes, then stir again before use.

**N.B. Licalatex** can be added (in a ratio of 1:1 with the mixing water) to increase watertightness and resistance to corrosive agents.

**Super S1** must be used as it is, with the sole addition of clean water. Do not split the packages to use them partially and do not use open bags.

**Applicazione**

**1A** Apply the adhesive using a 6-10 mm notched trowel, wetting the tile by at least 65% in the case of indoor application and 100% in the case of outdoor application.

**1B** In the case of demanding applications (outdoors, pools, tanks, large areas, etc.), it is necessary to apply the adhesive even on the back of the tile in addition to the substrate; double spreading method.

**2** The maximum thickness of the adhesive must not exceed 5 mm.

**3** Exert enough pressure on the tile to ensure contact with the adhesive.

**N.B.** Non è necessario bagnare le piastrelle prima della posa; assicurarsi che sui rovesci non sia presente della

**PRODUCT INFORMATION**

|  |  |
|--|--|
| Appearance                             | Grey or white powder                           |
| Particle size                          | <0,5 mm  |
| Powder consumption                     | From 2.5-5.5 kg/m <sup>2</sup>                 |
| Mixing water                           | 26%-28% of weight of powder                    |
| Workability time at 20 °C              | ≥ 30 minutes                                   |
| Application thickness per coat         | 2-5 mm   |
| Application temperature                | From +5° to +35 °C                             |
| Foot traffic resistant                 | 24/36 h  |
| Usable                                 | 14 days  |
| Storage in unopened original packaging | 12 months in a dry place between +5° and +35°C |
| Packaging                              | 25 Kg  |
| Apparent density                       | 1250-1350 Kg/dm <sup>3</sup>                   |

**PERFORMANCE**

| Characteristic                                     | Test method         | Legal requirement                                 | Performance                                       |
|--|---------------------|---|---|
| Initial tensile adhesion strength                  | 8.2 of EN 1348:2007 | ≥1 N/mm <sup>2</sup>                              | ≥1 N/mm <sup>2</sup>                              |
| Tensile adhesion strength after water immersion    | 8.3 of EN 1348:2007 | ≥1 N/mm <sup>2</sup>                              | ≥1 N/mm <sup>2</sup>                              |
| Tensile adhesion strength after thermal ageing     | 8.4 of EN 1348:2007 | ≥1 N/mm <sup>2</sup>                              | ≥1 N/mm <sup>2</sup>                              |
| Tensile adhesion strength after freeze-thaw cycles | 8.5 of EN 1348:2007 | ≥1 N/mm <sup>2</sup>                              | ≥1 N/mm <sup>2</sup>                              |
| Slip   | EN 1308             | <0,5 mm   | <0,5 mm   |
| Extended open time: tensile adhesion strength      | EN 1346             | ≥0.5 N/mm <sup>2</sup> after not less than 30 min | ≥0.5 N/mm <sup>2</sup> after not less than 30 min |
| Extended open time: tensile adhesion strength      | EN 1346             | ≥2.5 mm and <5 mm                                 | ≥2.5 mm and <5 mm                                 |

**WARNINGS**

- Product for professional use.

In the case of applications other than those indicated in the sheet, it is advisable to carry out a suitability check in advance and/or contact the Licata Technical Service for further information.

- Always check the colour, texture and appearance before application. Any claims regarding this will not be accepted once the product has been applied.
- Do not apply in extreme conditions such as on icy surfaces or in the presence of fog/excessive ambient humidity.
- To avoid aesthetic and functional defects, adequate shielding must be provided in case of direct exposure to sunlight.
- Make sure that the ambient, substrate and product temperatures during application and drying are between +5°C and +35°C.
- Properly care for the product until it is completely dry and at least in the first 48-72 hours, protecting it from rain, wind, weather and direct sunlight.
- The temperature and humidity can accelerate (if high) or slow down (if too low) even drastically the maturation process, until it stops completely.
- The presence of scaffolding, the use of natural raw materials and the impossibility of controlling the atmospheric and substrate conditions can lead to signs of recovery and inhomogeneity for which Licata SpA is not responsible.
- The fresh product can be washed with water.

**SAFETY**

Protect eyes and hands during application.

Read and keep the latest version of the Safety Data Sheet available for information on the correct disposal, storage and handling of the product.

**NOTES**

This data sheet replaces and voids all previous versions.

The instructions and performance information given in this document are based on our current technical-scientific knowledge and must in any case be considered purely indicative and refer to standard laboratory conditions. The purchaser must, therefore, check that the product is suitable for his specific requirements. All the documentation necessary for the safe use of Licata SpA products is available in its most up-to-date form on the **Licata SpA** company website. Additionally, our technical-commercial network guarantees a quick inquiry and remains available to you for information and explanations. For further information, contact the Licata Technical Service at [servizio-tecnico@licataspa.it](mailto:servizio-tecnico@licataspa.it)

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