

Leca ULTRA TILEset Adhesive 1054

High deformable and ready-mix lightweight cement and polymer-based tile adhesive C2TE S1



Version & Date:
V7 - Aug 2025

- Suitable for all type and size of tiles and natural stones
- Suitable for humidity sensitive natural stones
- Resistant to water and severe weather conditions
- Suitable for underfloor heating systems
- Extended open time and no vertical slip
- Suitable for various substrates

Description

Leca ULTRA TILEset adhesive 1054 is high performance cementitious (S1) class flexible cement -based and polymer modified tile adhesive in the form of gray and white powder, it consists of special cement, powder of Leca aggregate, polymers, and special additive, it suitable for all type and size of interior and external area on both floor and wall.

Fields of Application:

- Interior and exterior floor and wall bonding all types and sizes of tiles, natural stones, marble, granite, porcelain, clinker, cotto on cementitious renders and cementitious screeds and concrete.
- Bonding of all types and sizes of tiles and glass mosaics in swimming pools, bathrooms, water tanks, basins and other wet place
- Bonding of tiles on places where sudden temperature changes occur like cold storage depots, under and over floor heat installation
- Bonding of places subject to heavy traffic like shopping malls, hospitals and schools
- Application on various substrates like rendering and plastering

Advantages

- Perfect adherence
- Highly deformable, resistant to temperature changes
- Waterproof
- Extended open time
- Can be applied on vertical surfaces even for bonding of heavy tiles without sagging
- reduced slip in vertical surface application
- Less consumption of adhesive due to thinner layer

Structure of material:

Special cement, powder of Leca aggregate, polymers, special additive

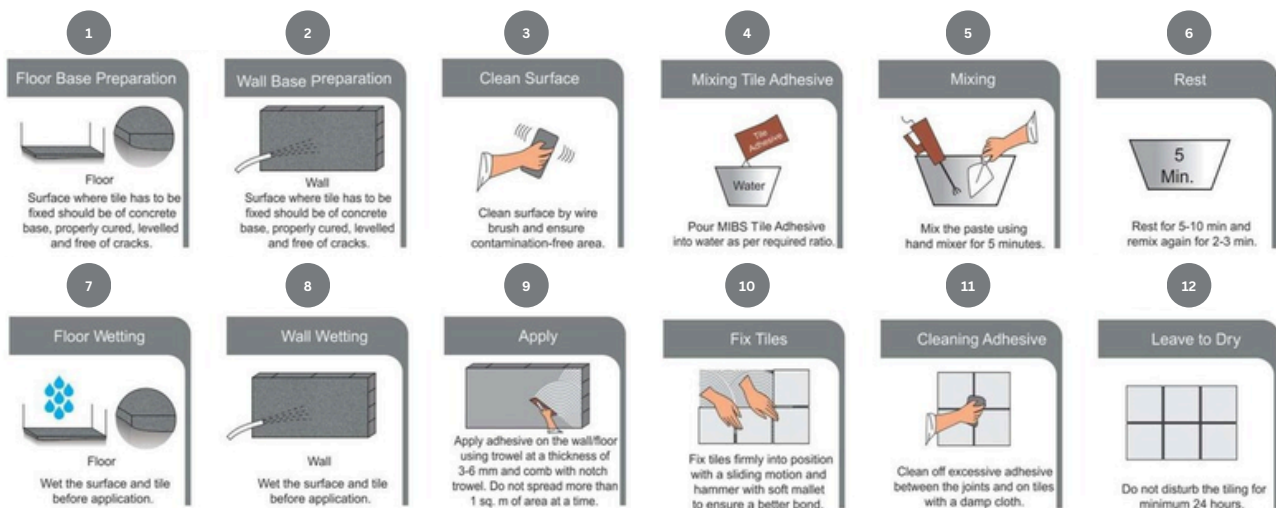


Storage:

The product should be stored in its original package, in a cool and dry place protected from frost, for short term storage, maximum 2 pallets should be placed on top of each other and the shipment should be made on a first come and first go basis pallets should not be placed on top of each other during long term storage.

Preparation of Substrates:

- Substrates must be sound, free from oil, grease, and sufficiently dry. Cementitious substrates must be cured
- Cracked Plasters mortar and cement residues must be scraped off the surface
- The porous surfaces should be wetted and must be left to dry before application
- Exposed concrete surfaces should be primed with Leca Rushcoat R1 in order to increase the adhesion strength of the tile adhesive
- Wipe the back sides of tiles with water if dusty



Consumption

4-5 kg/m²

A bed thickness of 3 to 6 mm is recommended, though it may be exceeded in specific areas based on the surrounding conditions.

Package

25 Kg per one bag (60 bags per pallet)



Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge (Leca company). is only responsible for the quality of the product , (Leca company) is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use this technical form is valid only till a new version implemented and nullifies the old ones.

Certificates of Quality

Exceed the requirements of BS EN 12004:2007 for C2TE S1

C: cementitious

2: improved

T: reduced slip

E: extended open time

S2: highly deformable



EN 12004



EN 12004



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Technical Specification (at 23C° and 50% relative humidity)

Physical Parameter	ULTRA TILEset Adhesive 1054	Standard
Form	Powder	
Color	White or gray	
storage	12 months in dry area in the original sealed packaging	
Mixing ratio	6.0 to 7.0 liters of water for 25 kg	
Dry density	1400 kg / m ³	EN1015
Application temperature	+5C to +40C	
Packaging weight	25 kg	
Pot life	4 hours	
Open time	20 min	EN1346
Adjustability time	30 min	
Fire resistance	A1	EN13501
Grouting on wall	After 6 hours	
Grouting on floor	After 12 hours	
Compressive Strength Mpa	≥ 12	EN1015
Mixing time and method	Machine (40-80) RPM, 3 - 5 minutes	
Adhesive strength 28 days Mpa	Standard condition ≥ 3.2	ASTM C1583
	Water immersion ≥ 3.1	ASTM C1583
	Freeze – thaw ≥ 3.1	ASTM C1583
Thermal Conductivity (w/m.k)	0.071	EN1745



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- DURABILITY**
Expanded clay is durable
has long lifetime and
requires no maintenance
- ADDS STRENGTH**
Expanded clay can reduce the weight of concrete
by almost 50% without compromising strength
- LIGHTWEIGHT**
It is 4-5 times lighter than loose
gravel or loose fill crushed stone
- STRONG**
It can be used as loose fill and insulation in road
and rail embankments and can sustain dynamic
loads from heavy high-speed trains
- RECYCLABLE**
Expanded clay is 100% recyclable or reusable. There are no
problems with disposing of demolition waste and no use of new
materials, new resources or new energy
- RESISTANT TO FIRE**
It is classified as a fully non-combustible material. It has no reaction to
fire, does not emit gases or smoke and retains its mechanical resistance
and all other thermal and physical characteristics. It is an excellent
protection against fire

