

Rasotherm 500Plus

Ready-to-use, synthetic polymer-based fibre-reinforced adhesive/render paste, with high adhesive power and excellent elasticity, ideal as an adhesive/render paste for use in **licatatherm-type** external insulation finishing systems and as a render paste in the reinforced restoration of façades with microcavillations.



Rasotherm 500 Plus is a ready-to-use, synthetic polymer-based in water dispersion fibre-reinforced adhesive/render paste, ideal as an adhesive/render paste for insulating panels made of foamed polystyrene, glass wool, rock wool, cork and wood fibre panels, especially on deformable bases such as wood panels, fibre-cement panels etc. The careful selection of raw materials and the addition of selected synthetic polymers, give **Rasotherm 500 Plus** excellent elasticity, flexibility, mechanical resistance (classified **cat. 2** according to **EN 13498**) and impermeability to water. Totally free of cement, **Rasotherm 500 Plus**, is also ideal as skim plaster for buildings subject to high accidental impact risk, for low-baseboard and in the restoration of façades with microcavillations or cracks.



MAIN FIELDS OF USE

Rasotherm 500 Plus is ideal as an adhesive/render plaster on natural and not natural insulating panels such as:

- Rock wool
- Glass wool
- Wood fibre
- EPS

Rasotherm 500 Plus is designed and formulated for applications on:

- Wooden bases (even CLT type composite laminates)
- Pre-fabricated concrete panels
- Lime-cement base plasters and finishes
- Reinforced skim coatings in façade restoration cycles
- Concrete
- Old paint and coatings provided they are clean, thick and well anchored to the substrate

For applications on different substrates, please contact our technical department.

CHARACTERISTICS

- Specific for wooden bases: **Rasotherm 500 Plus** is an adhesive/render plaster specific for gluing the majority of insulating panels on a multitude of bases, even deformable, like wooden walls (raw wood, glued laminated timber, CLT etc.)
- Excellent elasticity: the combination of specific performance additives and high quality binders gives **Rasotherm 500 Plus** excellent elasticity and flexibility.
- High mechanical resistance: classified in **Cat. 2** according to **EN 13498**, **Rasotherm 500 Plus** has excellent qualities of resistance to accidental impacts that make it ideal for interventions on low-baseboards.
- Excellent Thixotropy: the special consistency of **Rasotherm 500 Plus** allows an easy application also in vertical.

- Universal product: **Rasotherm 500 Plus** allows the professional to carry out gluing and smoothing operations with a single product.
- Ideal for critical bases: The right mix between elasticity and flexibility make it ideal for restoration of façades with microcavillations or cracks.
- Excellent aesthetic finish. The finishings carried out with **Rasotherm 500 Plus**, thanks to the selected aggregates in constant grading curve with maximum diameter < 0.5 mm, allow paint or decorative treatments even without further processing.

APPLICATION METHOD

Preparation of substrate

Before applying the product, eliminate all dust, non-cohesive or flaky parts and clean thoroughly to remove surface treatments, oily substances, mineral or organic greases, wax, traces of chalk and salt. The substrate must be cured and in the case of insulating sheets, the protective film must be removed. If the substrate is crumbling, consolidate the surface with a high penetration primer, such as **Acril Primer Plus**.

Preparation of the product

The product is ready to use and can be applied by hand. IT IS advisable in any case to mix the product with a whip mixer in order to soften the mixture before laying.

Application

Bonding: on rough and not plastered surfaces it is advisable to apply the product in two-three crowns in the centre of the panel and along the perimeter.

On level surfaces and, in any case, on mineral panels such as rock or glass wool and wood fibre, apply the adhesive full-bed with a notched trowel homogeneously and continuously.

Slabs should be adjusted immediately after application.

Smoothing: Apply the first coat evenly and smoothly with a notched trowel, inserting **licatatherm 160** mesh in vertical strips and overlapping it on the joints by at least 10 cm. Apply a second coat with an American smoothing trowel at least 24-48 hours after the first coat, so that the entire mesh reinforcement is covered, obtaining a thickness of about 4 mm. Unfavourable climatic conditions (direct sun, dry wind, high temperatures) or highly absorbent screeds can reduce the open time of the slurry also to just a few minutes, therefore it is necessary to constantly check that the product does not form a surface film. **Rasotherm 500 Plus** cures sufficiently for successive applications after 7 days at +20 °C, unless otherwise indicated based on the application conditions, type of substrate, ambient temperature, etc.

Make sure that the ambient temperature, that of the substrate and product during application is between +5 °C and +35 °C.

PRODUCT INFORMATION

Appearance	White paste
Particle size	<0.5 mm
Consumption	Bonding: from 3 to 5 kg/m ² Smoothing: from 3 to 4 kg/m ²
Preparation of the product	Ready to use
Overlay time at 20 °C	24-48 hours
Application thickness per coat	From 1 to 3 mm per coat
Application temperature	From +5 °C to +35 °C
Storage	12 months in dry, protected place in unopened container at temperatures between +5 °C and +35 °C
Packaging	25 kg
pH of mixture	approx. 9



PERFORMANCE

Characteristic	Test method	Legal requirement	Performance
Specific gravity	Internal		1.45 kg/dm ³
Adhesion on cls and brick	Internal		> 0,45 N/mm ²
Solid mass content	Internal		>90%
Viscosity at 20 °C	Brookfield-impeller No. 6		Approximately 60 000 cPs
Limit value EU VOC Dir. 2004/42/EC			<30 g/L

WARNINGS

- IT IS not suitable for application on frozen or thawing substrates. Store the buckets in places away from direct sunlight and with temperatures not below +5 °C to avoid compromising the quality of the material.
- If the surfaces are crumbling, flaking or the paintwork is old, clean the substrate thoroughly.
- In the event of difficult substrates, perform a suitability test beforehand.
- The effective temperature and degree of humidity may speed up or slow down the drying process.
- After using the product, wash the tools with water.

SAFETY

Please consult the safety data sheet for information about product disposal, storage and usage.

NOTES

This data sheet replaces and voids all previous versions.

The indications and specifications given in this document are based on our current technical and scientific knowledge. They should, however, be considered as purely indicative because we have no control over the conditions in which the product will be used. The purchaser must, therefore, check that the product is suitable for his specific requirements. Our sales and technical network guarantees rapid consultancy services and is at your disposal for any clarifications and questions you may have about the use and application of **Licata SpA** products.

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