

Raso W 160

Fibre-reinforced skim coat/adhesive for interiors and exteriors, made with hydraulic binders, polymer-modified resins, certified in accordance with the UNI 998-1 standard as GP mortar, specifically designed for external solid insulation systems with white or graphite EPS panels and as a skim coat, in the reinforced repair of façades during restoration work.

Raso W 160 is a professional-grade skim coat/adhesive for interiors and exteriors, made with Portland cement, carefully selected sands, polymer-modified resins and additives that give it a considerable adhesive capacity and good workability. The addition of special mineral fibres means it is possible to combine improved shock resistance with good flexibility. **Raso W 160** proves to be an ideal substrate for subsequent application of decorative coatings made with silicates, acrylics, siloxanes, or paintwork. The superior adhesive capacity, the enhanced pot life and the exceptional spreadability make it particularly recommended for **licatatherm** external solid insulation systems and as a skim coating, in the reinforced repair of façades during restoration work.



MAIN AREAS OF APPLICATION

Raso W 160 can be used on the majority of substrates commonly used in construction, for work on both new and existing buildings. It is mainly intended for use in:

- **licatatherm** external solid insulation systems with classic panels such as EPS, graphite EPS or XPS (only for low bottom board strips)
- Lime/cement based renders
- Brick
- Prefabricated concrete or cast in-situ
- Autoclaved aerated concrete
- Old paintwork and coatings provided they are clean, consistent and well anchored to the substrate

Owing to its outstanding permeability to water vapour, **Raso W 160** is also recommended for **licatatherm** external solid insulation with rock wool or glass wool panels. IT is also suitable for single or double layer skim coatings with reinforcement on renders or lime-based finishes where no damp-proofing treatment or the use of biocompatible materials is required.

For application on other types of substrates, please contact our engineering department.

CHARACTERISTICS

- Universal product: owing to its special composition, **Raso W 160** adheres to the majority of substrates commonly used in construction.
- Easy workability. The combined spreadability, easy detachment of tools and simple working are obtained thanks to the use of latest-generation additives, reducing the level of difficulty and any delays in the laying process.
- Regulating: **Raso W 160** can also be used as a "regulating" product on extra thick surfaces that are not flat (up to 10 mm).
- Outstanding thixotropy: the special additives contained in **Raso W 160** make for easy application both vertically as well as over-head.
- Controlled hygrometric shrinkage. The presence of special mineral fibres minimises the formation of cracks.



- Outstanding styling finish. Thanks to the inert materials selected in a constant particle size curve with a maximum diameter of < 1.0 mm the finishes accomplished with **Raso W 160** allow paint or decorative treatments to be achieved even without further working.

APPLICATION METHOD

Preparing the substrate

Before applying the product, remove dust, loose or crumbling parts, clean the area of application thoroughly so that it is free of dust residue from surface treatments such as: detergents, oily substances, mineral or organic greases, waxes, traces of gypsum and salt. The application substrate must be well seasoned and, in the case of insulating sheets, any protective film should be removed.

Preparing the mixture

You need 5.25-5.75 litres of clean water (UNI EN 1008) for every 25 kg bag (i.e. 21-23% in mass). Pour the product into a clean tub, containing $\frac{3}{4}$ of the mixing water, mix for around 3 minutes by hand or machine, gradually adding the remainder of the water until you achieve an even thixotropic mixture, without any lumps, and leave to rest for 1-2 minutes then shake before use.

Raso W 160 should be used as it is, with the only addition of clean water. We advise against splitting the packs to perform partial mixtures, as the product stored in open bags and only used in part may no longer meet the technical characteristics listed in this document.

Application

- *Bonding*: on unfinished and un-rendered surfaces, we recommend you apply a 3-5 cm strip of the product along the perimeter of the panel and 2-3 rings in the middle.

On rendered or flat surfaces, apply the adhesive on a full bed using a toothed trowel.

- *Skim coating*: apply a first coat using a toothed trowel evenly and flat, embedding the **licatatherm 160** mesh into it in vertical strips and overlapping the joints for at least 10 cm. Apply a second coat using a smooth normal stainless steel trowel at least 24 hours after the first coat, so as to cover the reinforcement mesh entirely, then skim with a sponge float when the product starts to dry.

Unfavourable weather conditions (midday sun, dry wind, high temperatures) or very absorbent substrates could reduce the pot life of the mixture to just a few minutes, so you need to check constantly that the mortar does not form a surface film, stirring it again if necessary.

A wet substrate helps prolong the pot life of the mixture, yet it is advisable not to moisten the mixed mortar further.

Any adjustments to the sheets should be made immediately after bonding.

Raso W 160 reaches a degree of curing suitable for subsequent processing after 7 days at +20 °C, unless otherwise specified depending on the laying conditions, the nature of the substrate, the room temperature, etc.

Make sure the temperature of the room, of the substrate, and of the product during application falls between +5 °C and +35 °C.

PRODUCT INFORMATION

| | |
|-----------------------------------|--|
| Appearance | Grey or white powder |
| Particle size | <0.5 mm and 0.8 mm |
| Powder consumption (bonding) | Between 4 and 6 kg/m ² on full surface Between 3 and 5 kg/m ² for perimeter with points |
| Powder consumption (skim coating) | Between 4 and 6 kg/m ² 1.15 kg/m ² per mm in thickness |
| Mixing water | 21-23% of powder weight |
| Workability time at 20 °C | >30 minutes |
| Application thickness per coat | ± 1 mm (0.5 mm version) ± 1.5 mm (0.8 mm version) |
| Application temperature | Between +5 °C and +35 °C |
| Storage | 12 months in a dry, protected place in sealed packs, at temperatures of between +5 °C and +35 °C |
| Packaging | 25 kg |
| Density | 1300-1400 kg/dm ³ |
| Mixture pH | approx. 11 |

PERFORMANCE LEVELS according

| Characteristic | Test Method | Normative requirement | Performance |
|---|-------------|-----------------------|-----------------------------|
| Dry bulk density | EN 1015-10 | | 1400-1500 kg/m ³ |
| Compression resistance | EN 1015-11 | CS I - CS IV | CS III |
| Adhesion | EN 1015-12 | | ≥ 0.14 MPa |
| Fracture pattern | EN 1015-12 | A, B, C | B |
| Capillary water absorption | EN 1015-18 | W0-W2 | W0 |
| Water vapour permeability coefficient (μ) | EN 1015-19 | | ≤ 8 |
| Thermal conductivity (λ) | EN 1745 | | < 0.45 W/mK |

WARNINGS

- Professional-grade product.
- Alkaline material: protect your eyes and skin during application.
- After use, wash tools with water while the mixture is still fresh.
- The room temperature and degree of humidity affect the workability, grip and drying times.
- Monitor the product curing suitably for at least the first 24 hours after laying, protect fresh mortar against rapid drying, against direct sunlight, strong wind and heavy rain.

SAFETY

As regards the information concerning proper product disposal, storage and handling, please consult the relevant Safety Data Sheet.

NOTES

This technical data sheet replaces and cancels all previous versions.

The indications and performance levels provided in this document are based on our current technical-scientific knowledge and in any case should be considered as purely indicative since the conditions of use are in no way under our control. The purchaser must therefore check the suitability of the product for his or her specific needs, assuming all responsibility deriving from its use. Our technical-sales network guarantees a speedy response and is at your disposal for any clarifications or queries regarding the use and processing of **licata SpA** products.

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