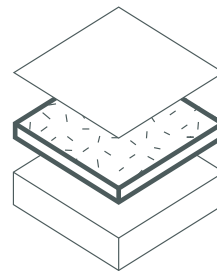
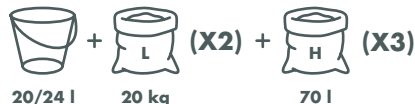


RH310



BLEND



APPLICATION



5° - 30°

Operative data

- Supply of pre-packaged binder based on lime in powder type UNI EN 998-1. Packed in 20 kg paper bags
- Supply of filtered natural rice husk. Packaged in 8,4 kg paper bags
- Combine the mixture of the bags adding clean water (20/24 liters).
- Application temperature between +5°C and + 30°C
- Indicative consumption:
20/24 liters of water + 2 bags of 20 kg of lime + 3 bags of 70 liters of husk
= 1m² x 21 cm thick



The data shown refer to tests carried out by the CMR snc (VI) laboratory; during application these can be significantly modified according to the conditions of installation. The user must however check the suitability of the product for the intended use, assuming all responsibility that derive from the use.

Our products are subject to continuous controls, both on raw materials and on the finished products, in order to guarantee constant quality. Our technicians and consultants are at your disposal for information, clarifications and questions about use the pose of our products. RiceHouse srl reserves the right to make changes without prior notice.

BASE LIGHTWEIGHT SCREED

Mortar for base lightweight screed, used on slabs of various kinds, based on natural lime and rice husk.

Components

The RH310 base lightweight screed is a mixture made on site based on lime and rice husk, specifically designed for bases of the screed. It is light, easy to apply and is not eatable for rodents and insects. Designed to create a product that minimizes drying and posing timeline on site.

Product description

The RH310 screed is a substrate with high thermal-acoustic performance, which can be applied manually or by equipment. The components, mixed before the pose, create a blend that is easy to pose.

It is applied in thicknesses from 5 to 25 cm, is light, extremely flexible, breathable, compatible with all types of supports and specific for thermal insulation and reduced load bearing of the slabs.

The material can be used in new construction but is also suitable for thermal and hygrometric renovation of existing buildings. It guarantees excellent acoustic insulation performance.

WARNINGS!

Do not apply the product at temperatures below + 5°C and above + 30°C. Follow the instructions in this datasheet. For inquiries please contact our technical service at +39 329 1869562.

Technical features

Thermal conductivity	λ 0,06 (W/mK)
Resistance to water vapor diffusion	μ 5 (-)
Adhesion	01 FP type B (N/mm ²)
Compression strength	class CS1
Density of hardened mortar	340 (kg/m ³)
Specific heat	1300 (J/kgK)
Heat resistance	R 0,828 (m ² K/W)
Reaction to fire	A2
Thermal conductance	C 1,403 (W/m ² K)
Water absorption	W1

Quality



The RH310 bioplaster, thanks to the perfect symbiosis of natural materials, guarantees excellent qualities as:

- Improvement of the indoor **living comfort** and wellbeing
- **Reducing** indoor **pollution** by subtracting CO₂ from the air inside the building's structures
- **Insulation** and the **thermal lag** of the screed amplifies the feeling of natural well-being, both in summer and winter
- The high silica content of the husk makes the biocomposite **durable** and **resistant** to biological agents such as molds and insects
- Its porosity generates a noise-absorbing effect contributing to the increase of the **acoustic comfort**
- Good adherence and **performance compatibility** with all types of support
- The biocomposite generates an **extremely reduced ecological footprint** by exploiting the characteristics of CO₂ reduction
- The product is an **Italian brand** consisting only of raw materials produced in Italy, from a short supply chain
- The use of the husk, very rich in silica, gives to the compound a **high inertia to fire**
- The use of rice residuals **reduces** the **environmental impact**, generated during the production, use, disposal and recycling of the compound, to **almost zero**.

Method of use

1. Preparation of the support

- There are no treatments of the surface preparation. However, it is necessary to completely remove debris and other materials that can obstacle the cohesion.

2. Preparation of the blend

- Pour and mix 12 liters of clean water, a bag of lime-based binder for the substrate and a bag of RiceHouse rice husk, until you obtain a pasty, homogeneous and lump-free mix.

3. Laying the screed

- The screed RH310 is applied manually following the traditional procedure: preparation of the level strips, casting and compaction of the mixture and spreading. The compaction phase is particularly important for achieving the highest mechanical performance, it must be carried out immediately after drafting. In case of high thickness, the beating must be carried out several times until reaching the desired thickness. It is also applicable by machines that pose lightweight screeds. The total drying period, for a thickness of 1.5 cm, varies from 15 to 30 days, depending on the microclimatic conditions.

4. Recommendations

- During the application, the temperature of the surrounding environment and of the support must not fall below + 5°C and exceed + 30°C. At the end of the installation, to avoid breakdowns or damage, it is advisable not to expose the screed to loads. The degree of surface finish of the screed must be compatible with the finish chosen by the clerk of works.
- Being natural products, the company can not guarantee supply of same color tones of material already applied, especially if purchased at different times.

5. Conservation

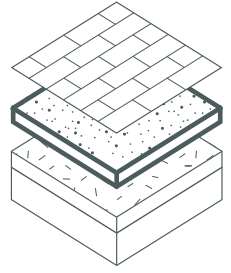
- The product can be stored for 4 months in dry places. Keep away from frost.

6. Security

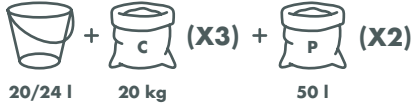
- Due to its natural lime content, RH310 is an alkaline material. Use of a mask and gloves is recommended during application. In case of accidental contact with the eyes, wash thoroughly with water and consult a doctor.

The RiceHouse plasters and products, while being easy to apply, are subject to the quality of installation. The installation of the materials that we produce must necessarily be subject to the instructions of our area managers.

RH330



BLEND



APPLICATION



5° - 30°

Operative data

- Supply of pre-packaged binder based on lime in powder, type UNI EN 998-1. Packed in 20 kg paper bags.
- Supply of polyhedral white pumice stone in granules. Packed in 50 litres paper bags.
- Combine the mixture of the bag of pumice stone with the bag of binder, adding clean water (20/24 liters for the three bags).
- Application temperature between + 5°C and + 30°C.
- Indicative consumption: 20/24 liters of water + 3 bags of binder of 20kg + 2 bags of pumice stone of 50 liters
= 1 m² x 10cm of thickness



The data shown refer to tests carried out by the CMR snc (VI) laboratory; during application these can be significantly modified according to the conditions of installation. The user must however check the suitability of the product for the intended use, assuming all responsibility that derive from the use.

Our products are subject to continuous controls, both on raw materials and on the finished products, in order to guarantee constant quality. Our technicians and consultants are at your disposal for information, clarifications and questions about use the pose of our products. RiceHouse srl reserves the right to make changes without prior notice.

LOAD DISTRIBUTION SCREED

Polyfunctional lightweight screed used on floors of various kinds, based on natural lime, pumice pearls and rice straw. Very strong structurally, it is used as a screed for the distributed loads.

Components

The RH330 load distribution screed is a mixture/composition made on site, based on lime, pumice stone and rice straw, specifically designed for natural substrates. It is composed of aerial lime in hydrated form, certified EN 459-1, natural hydraulic lime NHL 3,5 certified EN 459-1, pozzolana certified EN 197-1, pumice stone in granules that are light and have thermo-acoustic insulation, ash of husk and rice straw.

Product description

The RH330 screed is a natural and ecological substrate with high thermal and acoustic insulation properties, high mechanical resistance, it can be applied manually or by equipment. Its components, mixed before use, create easily applicable compound.

RH330 lightweight screed in lime-pumice is applied in thicknesses from 3 to 8 cm, it is light, extremely flexible, breathable, compatible with all supports. It is specific for thermal insulation and reduced load capacity, in the bioconstruction and in the renovation of existing buildings. It is ductile and breathable, it is designed for new buildings, but is also suitable for thermal and hygrometric renovation of existing buildings. It guarantees excellent acoustic insulation performance and is therefore optimal in all environments that need to be isolated.

WARNINGS!

Do not apply the product at temperatures below + 5°C and above + 30°C. Follow the instructions in this data sheet. If in doubt, consult our technical service at +39 329 1869562.

Technical features

Thermal conductivity	λ 0,53 (W/mK)
Granulometry	da 0 a 4 mm
Density of the hardened mortar	550 (kg/m ³)
Resistance to water vapor diffusion	μ 9,5 (-)
Mechanical resistance to compression	20 (N/mm ²)
Mechanical resistance to bending	4,5 (N/mm ²)
Adhesion	0,4 FP type B
Reaction to fire	A1
Water absorption	2,6 kg m ² min ^{0,5}
Wear/Abrasion resistance	5000 rounds

Quality



The RH330 screed, thanks to the perfect symbiosis of natural materials, guarantees excellent qualities of:

- Improvement of the indoor **living comfort** and wellbeing
- Thanks to the absence of free silica is totally **non toxic**
- **Insulation** and **thermal displacement** of the screed amplify the feeling of natural well-being both in summer and winter
- The high silica content of the pumice makes the biocomposite **durable** and **resistant** to biological agents such as molds and insects
- Its porosity generates a noise-absorbing effect contributing to the increase of the **acoustic comfort**
- Good adherence and **performance compatibility** with all types of support
- The remarkable lightness of the pumice, combined with the extraordinary characteristics of the lime, make the compound easily pumpable and workable, guaranteeing an **extremely easy pose**
- The alveolar structure of the pumice helps to make the screed an excellent **regulator of humidity** in as it absorbs water from the air when it is too wet and returns it when it is too dry. In this way the relative humidity is maintained in optimal condition
- The particular hardness of the pumice means that the bioscreed has **high mechanical compression resistance**. This makes it ideal not only as a lightweight screed, but also as a pre-pavement screed
- The product is an **Italian brand** consisting only of raw materials produced in Italy, from a short supply chain
- The use of the pumice, very rich in silica, gives to the compound a **high inertia to fire**

Method of use

1. Preparation of the support

- There are no particular indications during surface preparation. However, it is necessary to completely remove debris and processing debris that may cause the product to not cohesion.

2. Preparation of the blend

- Pour and mix 24 liters of water with the 3 bags of binder, based on lime for substrates and mix it in order to favor hydration; add the 2 pumice bags and mix it until you get a homogenous mix.

3. Posing the screed

- The screed RH330 is applied manually following the traditional steps of making screeds: preparation of the level strips, casting and compaction (beating) of the mixture and spreading. The compaction phase is particularly important for achieving the highest mechanical performance; it must be carried out immediately after drafting. In case of high thickness, the beating must be carried out several times until reaching the desired thickness. It is also applicable to equipment for specific substrates for light products. The total drying period, for a thickness of 15 cm, varies from 15 to 30 days depending on the microclimatic conditions of the room.

4. Recommendations

- During the product pose, the temperature of the surrounding environment and of the support must not fall below + 5 ° C and exceed + 30 ° C. At the end of the installation, to avoid breakdowns or damage, it is advisable not to subject the substrate to any loads. The degree of surface finish of the screed must be compatible with the finish chosen by the clerk of works.
- Being natural products, the company can not guarantee supply of some color tones of material already applied, especially if purchased at different periods.

5. Conservation

- The product can be stored for 4 months in dry places. Keep away from frost.

6. Security

- Due to its natural lime content, RH330 is an alkaline material. Use of a mask and gloves is recommended during application. In case of accidental contact with the eyes, wash thoroughly with water and consult a doctor.

The RiceHouse plasters and products, while being easy to apply, are subject to the quality of installation. The installation of the materials that we produce must necessarily be subject to the instructions of our area managers.