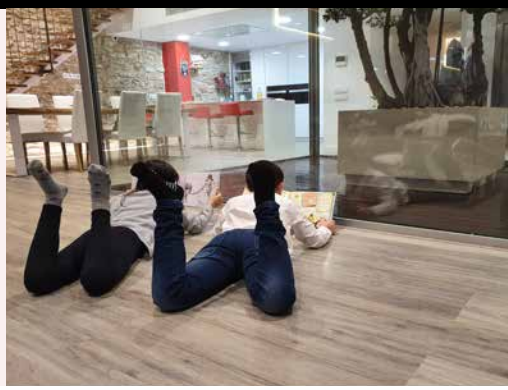
Pavifluid Radiant®

Fluid and leveling mortar of high thermal conductivity

Based on anhydrite and hydraulic binders, mineral and synthetic additions, it does not require the incorporation of additives.



Product

- Thicknesses of 3 - 8 mm
- Fast thermal response
- Ready to use
- Pumpable
- Retraction compensated
- High mechanical resistance

Observations

Not apply:

- Wet floors subject to continuous humidity lifts.
- As a support for paints or coatings based on epoxy or polyurethane resins.
- With more water than recommended.
- Surfaces that exceed 25ºC (measured on the pavement to be made).
- With direct insolation, air currents, temperatures below 5ºC.

Characteristics

- Mix life: ± 30 minutes
- Dry to the touch: 2 - 3 hours
- Time to coat:
  ** With ceramic: ± 2 days per cm of thickness
  ** With Linoleum, PVC, and parquet: ± 3 days, per cm of thickness
- Thicknesses: minimum 3 cm / maximum 8 cm

** These times are contemplated at 20ºC and they can considerably oscillate depending on the ambient temperature.*

Performances (5 cm y 18% of water)

- Final performance:
  - Tensile strength (28 days) <1.5 mm / m
  - Adhesion to concrete> 1.5 MPa
- Flexural tensile strength (UNE-EN 12190):
  - At 7 days: ≥1.7 N / mm2
  - At 15 days: ≥2.3 N / mm2
  - At 28 days: ≥3 N / mm2
- Compressive strength (UNE-EN 12190):
  - At 7 days: ≥25 N / mm2
  - At 15 days: ≥30 N / mm2
  - At 28 days: ≥35 N / mm2
- Reaction to fire (EN 13501-1) Class A1fl
- Thermal conductivity: 1.5 - 1.7 W / mK
- Cured material pH: 10 ± 1

*** These results are from standard essays and they can oscillate depending on the workplace conditions.*

Enforcements

- Fluid leveling mortar with high temperature transmission, with high thermal conductivity for radiant heating systems, favoring energy transmission and quickly reducing the time to reach the desired temperature for thermal comfort in the room.
- New construction and rehabilitation.
- Indoor.

Supports

- All kinds of radiant heating systems (water pipe...)
- Thicknesses between 3-8 cm.

Finishes

- To be covered with **Pavistamp floor design**, ceramic, PVC, linoleum, vinyl, carpet, flooring, wood...

Recommendations

- Application temperatures from 5ºC to 35ºC.
- Do not add any additive to the mortar.
- Always respect the same percentage of water.
- Respect the minimum thickness required.
- For thicknesses greater than 4 cm, the use of reinforcing mesh is necessary.
- Incorrect placement of the radiant system and its insulation can cause cracks in the coating.
- The final thickness of the coating will depend on the existing radiant system, to guarantee its benefits, the total minimum thickness of 3 cm and 1 cm above the tube must always remain if it is by hot water.

Execution conditions

- The support must be solid and prepared to receive this type of screed.
- The mortar can be applied by means of a pumping machine or by traditional means (concrete mixer or electric mixer).
- During pouring, it is important to avoid drafts and direct insolation, and at least 48 hours after the applied mortar.
- Keep the application area well-conditioned to promote drying of the product.
- In the case of high thickness, it must be pumped in sections, depending on the capacity of the mixing pump and the thickness required. The largest areas can be divided by delimiters. In case of very high thicknesses, it is advisable to delimit cuts every approx. 50-60 m2.
- Do not start the radiant heating system until at least 4 days after pouring, the start-up must be done progressively in both rising and falling temperatures.

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Usage way

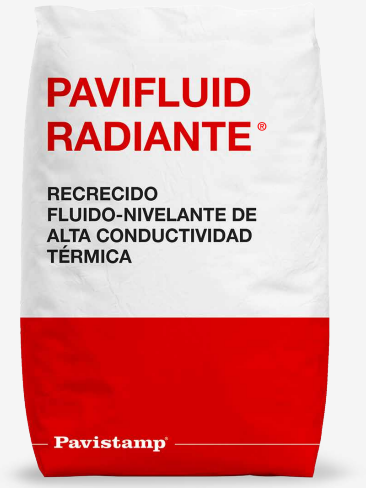
- **Kneading with pumping:**
  18% water.
- **Manual kneading:**
  A 25 kg sack with ± 4,5 clean water liters until obtaining a homogenous mass without lumps.

Apply the desired thickness and if necessary smooth with a leveling trowel. If necessary, pass the spiked roller to remove trapped air.

** Always carry out a preliminary test with the percentage of water to be used later in production.*

Associated products

*The usual ones for under floor heating.



Packaging

25 kg sack
1200 kg pallet (48 sacks)

Colors

Gray

Consumption

±1,8 kg/m2 and mm thickness

Consumption

In original closed container, and sheltered from outdoor and humidity: 9 months

Important

Always respect the safety and health regulations at work, which appear in the safety data sheet (SDS) of this product.

⚠ IMPORTANT

The observations and prescriptions of this technical sheet, even corresponding to our best experience, should be considered, in any case, purely indicative, and must be tested by exhaustive practical applications; Therefore, before using the product, whoever is going to do it must establish whether it is suitable for the intended use, and assumes any responsibility that may arise from its use. Once the product is handled or applied, the manufacturer will not assume any claim, nor will it be responsible for the form, mode and conditions of application.