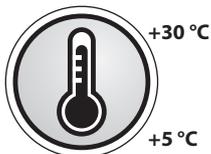




CHARACTERISTICS



AIRIUM® 350 is an innovative fully mineral and ready-to-use fluid insulation material. It is ideal for floor insulation (on concrete), and for filling of pipe slits.

AIRIUM® 350 has the following special properties:

1. Fully mineral product whose insulating properties are achieved by air bubbles.
2. AIRIUM® 350 can be utilized in floor systems just like any conventional insulation material.
3. High fluidity allows for complete filling of the required space creating a monolithic structure and fill in and insulate pipe slits in one single operation.
4. Easy to level and smooth without extra effort.
5. Simple preparation and application process including short cleaning time after finishing.
6. Provides a smooth and flat surface which reduces the consumption of the subsequent building materials. E.g. a reduction of up to 30 % of self levelling underlayments.
7. Has the highest fire resistance (A1; NF EN 1305-1:2018), due to the full mineral composition.

Technical characteristics	Values
Dry density, kg/m ³	350 ±30
Thermal conductivity, W/mK.	0,095
Compressive strength at 28 days, MPa	≥ 1
Fire resistance	A1
Residual moisture after 16 days, %	≤ 5*
Minimum thickness, cm	≥ 5
Maximum thickness, cm	≤ 100

(*) = Carbide Method (CM) of 5 cm thickness

Thickness, cm	Thermal resistance, R-value, [(m ² .K)/W]	Amount of 20 kg bags for 10 m ²
5	0,53	9
10	1,05	17
15	1,58	25
25	2,63	33

Mixing ratio	Consumption	Packaging
±14 l water per bag of 20 kg (70% of water from bags)	±3,4 kg/cm ²	20 kg
Colours	Processing time	Application temperature
Grey	±2 hours	+5 °C till +30 °C

DIRECTIONS FOR USE

The application shall be carried out on a non-frozen, clean, well maintained surface free of dust and oil spots and bits of loose substances. Porous surfaces need to be lightly dampened prior to application with a mixture of COMPAKTUNA®(PRO)/water solution (1/4) or with PRIMER PO.

Because of the high fluidity of AIRIUM®, it is necessary to close all holes and defects where leakage of AIRIUM® 350 may occur.

In addition to the construction joints in the substrate, dividing joints should be made every 25 m² and at every 8 linear meters.



MIXING PROCESS

AIRIUM® 350 is mixed with ±14 l of water per 20 kg of product. Use of a mixing container with a volume of at least 70 liters is mandatory, as the material increases in volume 3 times during the mixing process.

In the process of obtaining AIRIUM® 350 it is necessary to take into account the following:

1. The use of a high-speed mixer with one or two paddles is **mandatory**. Mixing must be done at **maximum speed (min 600 rpm)**.
2. To mix one 20 kg bag, you need a container of at least 70 liters in volume, one bag of AIRIUM® 350 provides 60 liter of final product.
3. Mixing must take at least **3 minutes** until a stable volume is achieved.
4. Check the wet density of the mixture by weighing a predefined volume. A wet density of 540 ±40 kg/m³ is targeted.



Video guide of
how to mix:



REMARKS

- AIRIUM® 350 is a flowable material, but it may require additional leveling using a bull float to achieve the smoothest surface.
- In the first days after using AIRIUM® 350, it is recommended to avoid breeze and open windows, direct sunlight, which can lead to accelerated evaporation of water and cracking.
- For porous substrates, a primer of COMPAKTUNA® (PRO)/water (1/4) or PRIMER PO (BL) is necessary. For application on top of tiles, PRIMER BL is recommended.
- AIRIUM® 350 achieves humidity levels under 5% within 28 days using the carbide method, under storage conditions of 20°C and 50% RH. For every centimeter of AIRIUM® 350 a drying time of 7 days is recommended. The drying process may vary due to diverse weather conditions, so it is advisable to verify the humidity levels before proceeding with the application of the next layer.
- AIRIUM® 350 must always be covered with a floor covering. It's recommended to sweep/clean the surface beforehand.
- AIRIUM® 350 is not a load-bearing material and should be covered with a screed or self levelling underlayment. When a self levelling underlayment is applied, a minimum thickness of 1 cm EGALISER-EN PLUS is required. The actual thickness depends on the intended use.
- In case of finishing with tiles we recommend AIRIUM® 350 + 1 cm EGALISER-EN PLUS for tiles up to 60x60 cm
AIRIUM® 350 + 5 cm (min.) screed for tiles larger than 60x60 cm

PACKAGING

AIRIUM® 350 is available in grey colour in polyethylene bags of 20 kg. The shelf life is 12 months in the original, closed packaging and kept dry.