

BaseForte® Screeds

AR 97 Self-levelling screed



Product description

Dry premix based on inerts selected in an adequately reconstructed curve, special hydraulic binders and special additives.

Supply and Storage

AR 97 is supplied in bulk with silo plants of 20 m³ or mobile stations and in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface to be filled with self-levelling AR 97, where there is no underfloor heating mat or sound-absorbant from the GRIGOACUSTICA line, must be carefully covered with a sheet of polyethylene or PVC, taking care to overlap the joints for at least 25 cm. Fasten the plastic sheet all along the walls and pillars with any kind of tape from compressible material; once done, we can move to the positioning of

reference levels.

Mix AR 97 with a horizontal mixer connected directly to the silo or, for the material supplied in bags, mix with about 15% water by suitable continuous mixer-pump, horizontal type. In either case, add water to achieve the desired dough consistency and send the product to the point of installation by screw-lung pump-type. In order to obtain an optimal end result, is the recommended to cut the product at door level, any protrusions, etc. inserting, in the process of installation, the appropriate coverings or, executing on the product once it has reached the consistency when it can be walked on, but no later than 36 hours, appropriate splitting joints.

Fields of use

AR 97 is a self-levelling screed suitable for the preparation of substrates for the subsequent installation of ceramic flooring, carpeting, wooden floors, linoleum, resilient flooring, for civilian constructions and the tertiary sector. It can be applied to surfaces in light concrete, expanded

cement and cement screeds in general, provided that the surface has been made independent through a vapor barrier and splitting joints. **Particularly suitable for underfloor heating.** For surfaces other than those listed, please consult our technical service.

Specifications

The interior substrates, of whose thickness exceeds 3 cm, will be made with the cement-based, self-levelling screed like AR 97 from Fornaci Calce Grigolin, a dry premix based on selected inerts, special hydraulic binders and special additives to improve workability, which does not require the addition of further inerts or binders or additives. Mix only with water in order to obtain a screed with a compression strength at 28 days above 20 N/mm² and a flexion strength in excess of 5 N/mm². The surface on which the screed will be laid must be covered with a vapor barrier and bounded with high splitting joints.

Technical data according to the UNI EN 13813 Standard

Classification	CT - C20 - F5
pH	Base
Time till walk-on	12-24 hrs
Consumption	19 kg/m ² per cm of thickness
Maximum diameter	3 mm
Specific weight	1700 kg/m ³ determined in free fall
Water in the mix	Approx. 15%
Minimal application thickness	3 cm
Pot life	Approx. 30 min. after mixing
Hygrometric withdrawal	< a 350 micron/m
Mechanical resistance to flexion at 28 days	5 N/mm ² (F5)
Mechanical resistance to compression at 28 days	20 N/mm ² (C20)
Drying time at 20°C and 50% R.H.	1 week per cm of thickness, up to 4 cm
Fire resistance	Classs A1 fl
Thermal conductivity	1,40 W/mK (tabulated value)
Volume mass	2100 kg/m ³

Disclaimers

PRODUCT FOR PROFESSIONAL USE.

Do not mix AR97 with other substances. Avoid strong ventilation by closing windows in the 48 hours after application and subsequently ventilate the premises in order to facilitate the drying of the screed. The laying on heated floors does not require the use of flowing agents as these are already contained in the product formula. Do not use AR97 when temperatures are below +5°C or above +30°C. Do not apply on frozen surfaces. Never apply a thicknesses below 3 cm. For thicknesses greater than 6 cm, consult with our technical service. The application of ceramic flooring can be carried out after the screed is cured. For the application of AR 97 on insulation products, thermal or acoustic, it is necessary to determine the thickness of the screed according to the compressibility and the thickness of the insulating material used. The application of wooden or generally resilient flooring, should only be done after the screed has achieved a moisture level lower than 2%, and in the presence of underfloor heating the residual humidity must be equal to or less than 1,7%, noting the latter by a carbide hygrometer. Remember that, for thicknesses greater than 4 cm, the drying time is 15 days for every subsequent cm. applied. The use of adhesives for vinyl flooring type is only recommended for sizes up to 25x5 cm and only after the screed has been previously treated with a primer compatible with the particular type of glue. For laying ceramic floorings on screeds not fully matured or when there is underfloor heating, we recommend the use of flexible adhesives such as our own Grigokoll TEX Grey or White.

