

ISOLCAP FEIN 300

READY TO USE, LIGHTWEIGHT THERMAL INSULATING BASE SCREED WITH FINE BEADS

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Ready to use, lightweight thermal insulating base screed with fine beads

COMPOSITION

Special water binders pre-batched at 300 kg/m³. Perfectly spherical virgin expanded polystyrene beads with high thermal insulation properties (\varnothing 2 mm), mixed with the special E.I.A. additive which allows a perfect mixing, excellent pumping and homogeneous distribution of the beads in the mix, and special additives.

PACKAGING AND STORAGE

- · Bags of 70 L yield.
- · Pallets of 40 bags (on demand 44/48).

 \cdot It is recommended the use within 6 months from the packaging. The product maintains the technical characteristics for over 12 months if conveniently stored (in a dry and fresh place, protected from frozen, water and direct sunlight). It is recommended to use suitable protection devices.

FIELDS OF APPLICATION

- · Single-layer lightweight thermal insulating screeds for floor coverings laid with glue (see notes on page 2). Not suitable for direct laying of resilient floor coverings.
- \cdot Lightweight thermal insulating base screeds (with or without gradient formation).
- · Lightening and filling castings.
- Roof thermal insulation (pitched or flat roofs with or without gradient formation). Suitable for direct laying of prefabricated waterproofing membranes (hot bituminous, cold bituminous, cold synthetic) or solvent-free liquid sheaths.

CONSUMPTION / YIFLD

1 m³ of lightweight thermal insulating mortar is obtained with 13 - 14 bags (depending on the equipment used and the accuracy of the mix).

- · Thoroughly clean the laying surface removing residues and dust.
- · Lay Piano Zero Profiles (single-layer screeds) or prepare the level points (intermediate levelling base

SURFACE PREPARATION

- · Moisten the laying surface (if absorbent) taking care not to create puddles.
- Highly absorbent surfaces (such as hallow brick, etc.). Proceed to the perfect cleaning and dusting removal from the laying surface. Apply an adhesion promoter grout and an absorbing reductor composed of cement / Edilstik / clean water (Edilstik / Water ratio 1:1). After drying, wet the laying surface and proceed to lay the lightweight screed. Wet the surface as you proceed with the application of the lightweight screed.

It can be mixed with:

- · Drill with whisk.
- · Cement mixer.
- · Mixer type "Turbomalt".

It can be mixed and pumped on site with:

- · Politerm® Machine (see Edilteco equipment).
- · Isolcap Machine (see Edilteco equipment)
- · Plastering machine (see notes on Page 2).
- · Truck mixer and concrete pump.
- · Pump tupe "Turbosol".

Hydrate with clean water in proportion of 10 - 11 L per bag. Mix for at least 5 minutes and not more than 10 minutes (except when using a plastering machine).

WARNINGS

APPLICATION

- · Do not apply with temperatures under +5 °C or over +35 °C or under the direct sunlight. If the application is made under the direct sunlight, necessary precautions must be taken (e.g. net or similar that cover the scaffolding).
- It is recommended to lay edge strips of acoustic insulation higher than the floor covering.











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Minimum thickness:

WARNINGS

- a) Absorbent surface: 5 cm between the highest point of any technological system and the lowest point of the flooring.
- b) Non-absorbent surface: consult "The Application Manual" or contact the Edilteco Technical Department.
- · For detailed application methods consult "The Application Manual" (available on demand) or contact Edilteco Technical Department.

 During the change of each pallet, verify the quantity of water into the mixture

TECHNICAL CHARACTERISTICS

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Dry density:	300 kg/m ³	-		
Specific weight (dry mortar):	approx. 315 kg/m³	-		
Thermal conductivity $\lambda_{_{0}}$:	0,080 W/mK	UNI EN 12667		
Compressive strength:	1,61 N/mm ²	UNI EN 1015-11		
Flexural strength:	0,95 N/ mm ²	UNI EN 1015-11		
Permeability to water vapour μ:	7,2	UNI EN ISO 12572		
Acoustic performance ΔL_{w} :	26 dB *	UNI EN 12354-2		
Moisture resistance:	rotproof	-		
Residual humidity after 28 days:	< 2% (5 cm thickness, absorbent surface)	-		

Drying time for direct laying of floor coverings (screed thickness 5 cm, absorbent surface and ambient conditions +20 °C - H.R. 50%) according to the laying surface, the environmental and weather condi-

- Ceramic tiles, gres, clinker tiles: after approx. 96 hours.
- Floating parquet: after approx. 7 days.

Mixing and pumping with plastering machine 220 V and 380 V:

- · Fit the plastering machine with an expansion tank, a screw and a mixer specific for premixed products based on polystyrene beads.
- · Maintain the loading hopper always full.
- · It is suggested to use the hopper extension.
- \cdot Do not use a compressor.
- Remove the end nozzle from the material pipe.
- · Adjust the flow meter to obtain a mortar with a creamy and homogeneous consistency.

Single-layer screed for direct laying of floor coverings (specific operation):

SPECIAL PROCESSING AND APPLICATIONS

OPERATION	Laying with glue of: ceramic, stoneware, clinker and terracotta tiles. Floating laying of: parquet	Laying with glue of: parquet	
Application of Piano Zero Profiles:	yes	yes	
Floating with "blade" float:	yes	yes	
Surface sanding with electrical brush fitted with sandpaper disks:	recommended	recommended	
Thin-bed surface smoothing with mix based on cement and glue:	recommended when there is heavy foot traffic before laying the floor covering	no	
Surface smoothing with Ariete Liv - minimum thickness 5 mm and in any case according to the type of wood and dimension of the wooden strips:	no	mandatory	

hence follows that in practical applications on building sites the final characteristics of the products may be subject to substantial variations depending on the meteorological conditions and the installation. The user must always check suitability of the product for its specific use, undertaking all liability implicit in and deriving from use of the product, as well as comply with all methods and instructions for use generally referable to "workmanlike" execution. Editects D.A. reserves the right to change the contents of this mechanical will be added to the product of the product as the product of the product as the product of the product o

* Value obtained in laboratory with 7 cm of Isolcap Fein 300 and Fonotech 5.

LAYING / FLOOR COVERING:











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