20 kg sack + 6.5 kg drum

FONOPLAST

ELASTIC TWO-COMPONENT ELASTOMER-BASED VIBRATION DAMPING CEMENT MORTAR

CHARACTERISTICS			ENVIRONMENTAL		METHOD OF USE		
AB	H_2O						+5°C +35°C
TWO-COMPONENT	WATER-BASED	ACOUSTIC INSULATION	ECO GREEN	RECYCLABLE	MIX MECHANICALLY	APPLY WITH A STAINLESS STEEL TROWEL	APPLICATION TEMPERATURE

1 PROBLEM

The use of normal cement mortar to connect the perimeter of dividing walls between different dwellings to the ceiling and the adjacent walls determines a rigid bond and poor adhesion that favours the lateral transmission of noise and reduces the stability of the same.

2 SOLUTION

FONOPLAST is an elastic two-component mortar with base of cement-polymer, selected quartz sand and additives that improve elasticity and adhesion. The combination of the two components produces a mix that is easy to work and that sticks excellently to the support. Once set, it creates an elastic coating around the perimeter of the walls, which reduces the vibrations of the acoustic pressure waves that are transmitted to the structure laterally (lateral transmissions).

APPLICATION FIELDS

FONOPLAST is used to skim all normal indoor and outdoor supports in concrete, cement+lime mortar or cement, cement foam, plaster, brickwork etc. **FONOPLAST** is used to create elastic perimetric linings with good characteristics of resistance to compression and of adhesion to all types of support, maintaining the elastic properties over time. The level of adhesion provided by **FONOPLAST** is much superior to that of a normal building site mortar.

METHOD OF USE

Substrate preparation.
The support must be compact and perfectly clean, free from dust, loose parts, oil and dirt in general. The surfaces must be free from stagnated water. Any irregular parts are to be filled-in in advance with suitable mortar according to the type of support involved. The surfaces to be treated must be as flat as possible to avoid having to build up thicker parts, which consequently involves high consumptions of material.

Mix preparation instruction.
Pour the B component (6 kg latex) in the dedicated container and gradually add the A component (25 kg powder), mixing with a stirrer drill at a slow rpm. Do not mix for too long to avoid incorporating air in the mix.
Application.
The product is laid evenly using a stainless steel trowel. One or more coats can be applied one after the other.
The application thickness is 3-4 mm.

CONSUMPTION

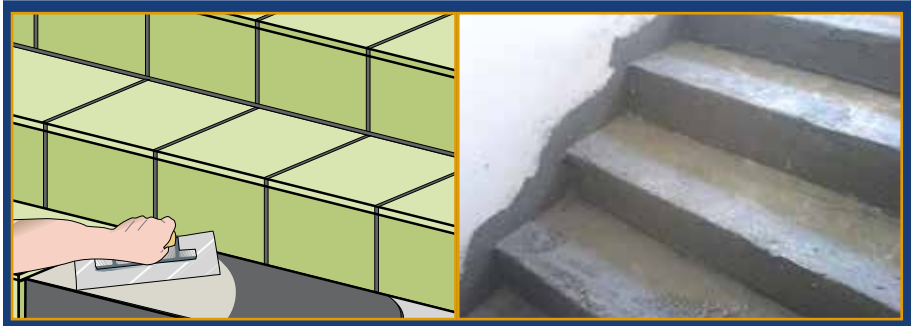
1,5 kg/m²×mm of thickness.

WARNINGS

- Minimum application temperature +5°C.
- Do not add water once the mix has started to set.
- Do not apply too thick.
- Protect from rain while the product is setting.
- Clean the tools with water after use.
- Do not add other materials to the mix.

FONOPLAST and FONOSTRIP keep the wall separated right along the perimeter

FONOPLAST, used as a separating layer, guarantees a damping level of "impact noise" of shared parts of buildings: shared staircases and corridors in apartment blocks etc.



2nd DIVISION 2nd LINE
5th DIVISION 2nd LINE

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FONOPLAST

	COMPONENT A	COMPONENT B
Aspect	Powder	Latex
Apparent density	1.48 kg/L	1.05 kg/L
Mixing ratio	20	6.5
Storage in original packaging in a dry place	12 months	
Mix properties and workability		
Density of the mix	1.58 ± 0.05 kg/L	
Pot life (*)	30 minutes	
Application temperature	+5°C ÷ +35°C	
Performance characteristics	**Product performance**	
Dynamic stiffness under a load of 200 kg/m²	900 MN/m³	
Water vapour permeability coefficient	μ > 1 500	
Cold flexibility	-30°C	
Water resistance (1 m water column)	Water proof	

Attenuation of foot traffic noise on the steps of a stairway Measurement on site.

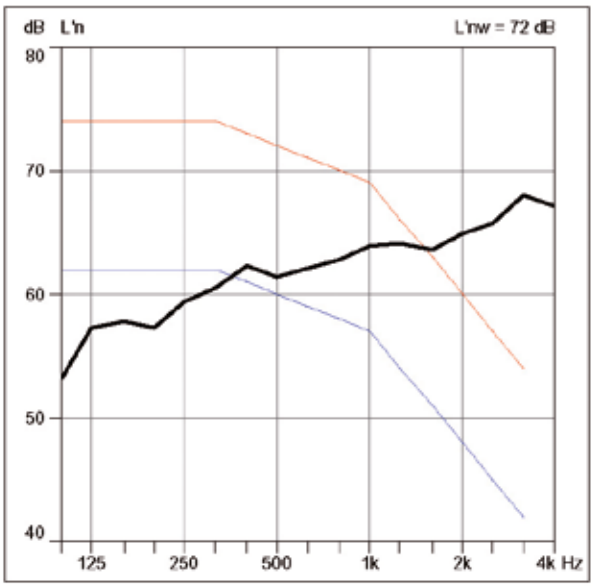
The test was carried out on a staircase fixed to the dividing wall of the stairwell of the receiving room.
The staircase was originally lined with granite slabs glued to the steps with cement mortar.
The volume of the receiving room was 225 m³.
The test carried out with the tapping machine on the steps involved:

- the step in the centre of the wall with the original granite slab covering for which an acoustic level of $L'_{n,w}$ = **72 dB** was measured in the receiving room
- the step right below with the same granite slab on which a ceramic tile was glued on a layer of FONOPLAST of 4.5 kg/m² for which an acoustic level of $L'_{n,w}$ = **62 dB** was measured in the receiving room.

Level of step

Overall result

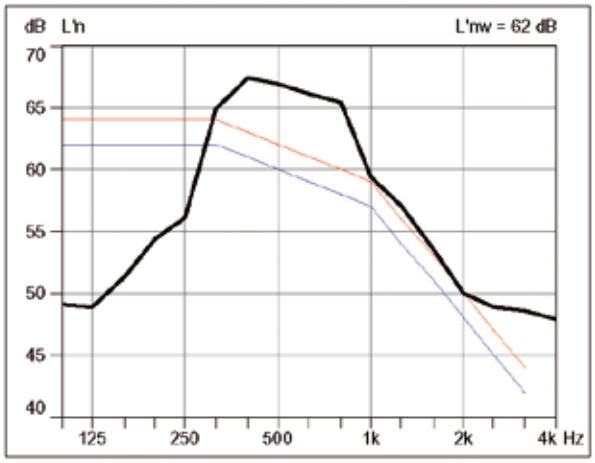
$L'_{n,w}$ = 72 dB



Level of step and FONOPLAST

Overall result

$L'_{n,w}$ = 62 dB



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