

EPS Industries
Insulation lightweight concrete

Cement-bound levelling insulation for indoor
and outdoor use

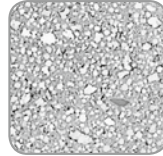


Product specification:

Sympor lightweight concrete is a cement bound levelling insulation with recycled EPS-foam beads. it is suitable as substructure and floor levelling as well as fillings.

Properties:

- Low weight
- Breathable
- Flame retardant
- Frost resistant
- Water-insensible
- High traffic load
- Guaranteed HBCD-free!



Technical data:					
	Standard	Sympor LB 250	Sympor LB 250 S	Sympor LB 400	Sympor LB 400 S
Dry bulk density:	EN 1097-3	250 +10% kg/m ³	250 +10% kg/m ³	350 +10% kg/m ³	350 +10% kg/m ³
Compressive strength:	EN 826	0,2 N/mm ²	0,2 N/mm ²	0,3-0,5 N/mm ²	0,3-0,5 N/mm ²
Heat conductivity: λ	EN 12667	0,09 W/mK	0,09 W/mK	0,12 W/mK	0,12 W/mK
Fire behaviour:	EN 11925-2 / EN 13501-1	Euroclass E	Euroclass E	A2	A2
Vapour diffusion:	EN 16025	μ = 7	μ = 7	μ = 7	μ = 7

DIBt: German Institute for Construction Technology Berlin
General building inspection approval no. Z-23.11 – 1971

Curing:

- LB 250 / LB 400: walkable after 1-2 days
LB 250 S / LB 400 S: walkable after 3 hours, coatable after 24 hours

Processing:

Add the specified amount of water (according to bag specification) to the lightweight insulation concrete and mix it thoroughly. If there is a homogenous mixture, stop mixing. Long mixing results in increased pore formation reducing strenght. The minimum installation thickness for larger surfaces is approximately 5 cm.

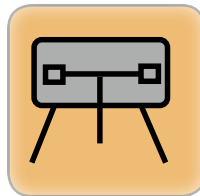
Processing time, processing temperature:

Approximately 30 minutes at 20°C. Not applicable below 5°C air and object temperature.

Yield:

1 bag provides about 80 litres of finished lightweight concrete.

Suitable mixing devices:



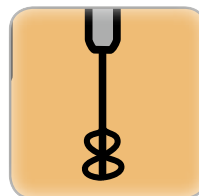
Pugmill mixer



Freefall mixer



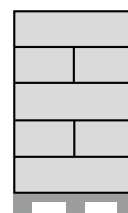
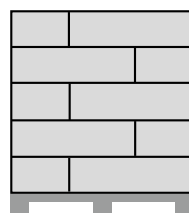
Screed pumps



Stirring unit

Storage:

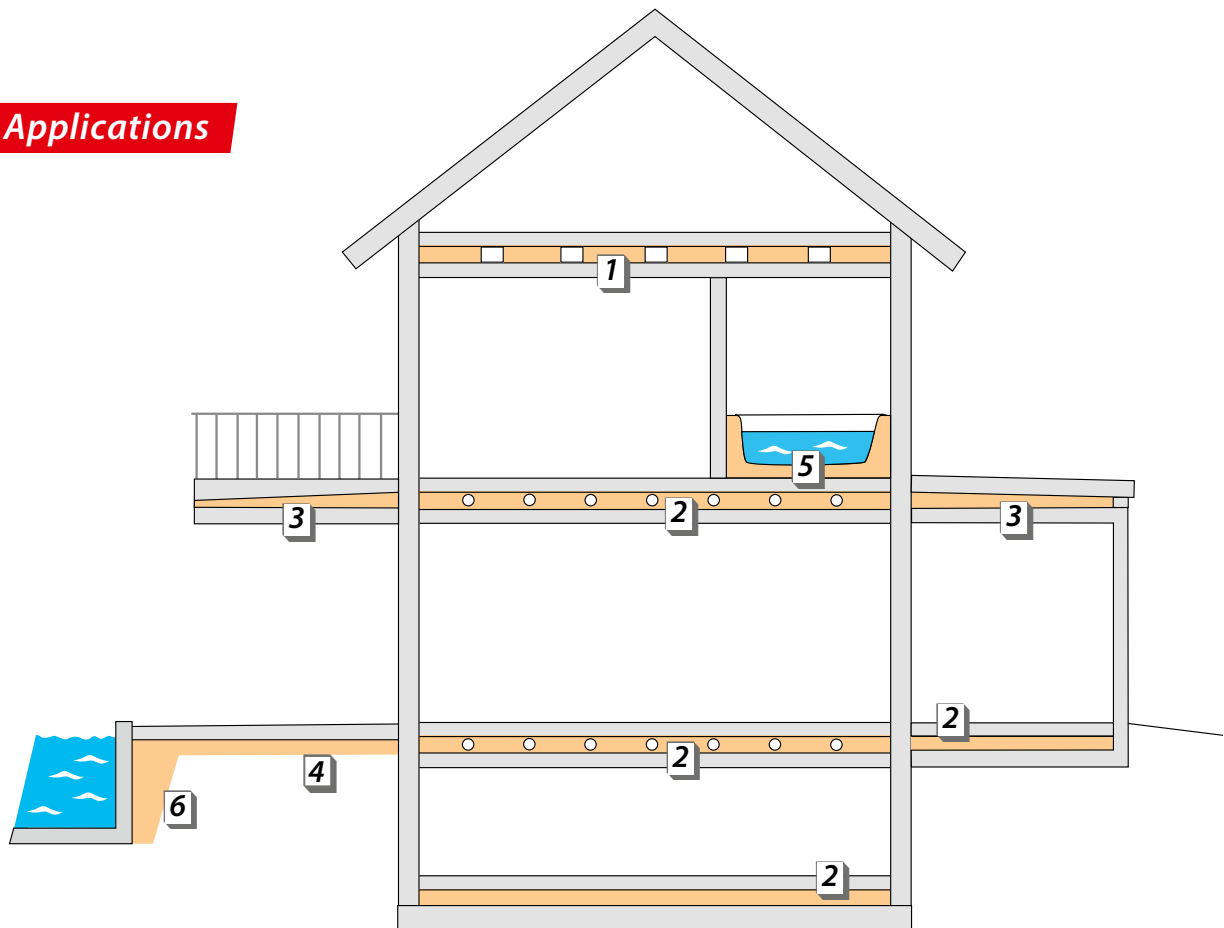
- Store dry
Types LB 250 S / LB 400 S: 3 months
Types LB 250 / 400: 6 months



Delivery:

- Packing unit: 15 bags/pallet
Europallet 120 x80 x120 cm

Applications



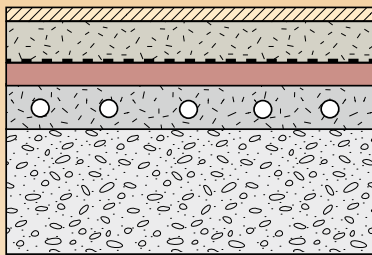
Application fields

	LB 250	LB 250 S	LB 400	LB 400 S
1 Ceiling, filling, wood-beamed or vaulted ceiling	●	●	●	●
2 Floor levelling compound, covering for piping and installation lines	●	●	●	●
3 Sloping concrete for balconies and flat roofs			●	●
4 Frost resistant substructure for terraces			●	●
5 Substructure for bathtubs and shower trays			●	●
6 Backfilling of swimming pools (polyester and steel)			●	●



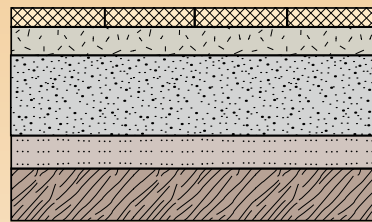
Installation examples

Floor levelling



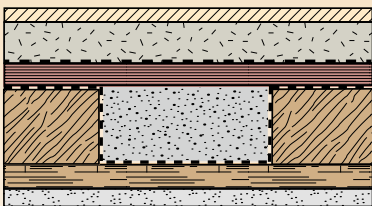
Coating
 Screed
 PE-Foil
 Thermal insulation, impact sound insulation
 EPS-lightweight concrete
 Concrete ceiling - bare ceiling

Terraces + eaves paving



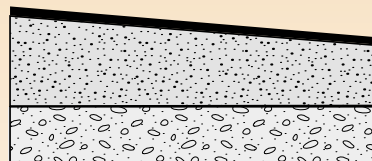
Stone coating, ceramic coating
 Reinforced bed of mortar
 20 cm of EPS lightweight concrete LB 400/LB 400S frost resistant substructure
 Granular subbase
 Soil

Wood-beamed ceiling



Coating
 Screed
 PE-Foil
 Thermal insulation, impact sound insulation
 Wooden ceiling /
 EPS-lightweight concrete
 Wooden casing
 Plasterboard

Gradient for flat roofs and balconies



Bituminous roof sheeting
 EPS-lightweight concrete LB 400/LB 400 S
 Ceiling