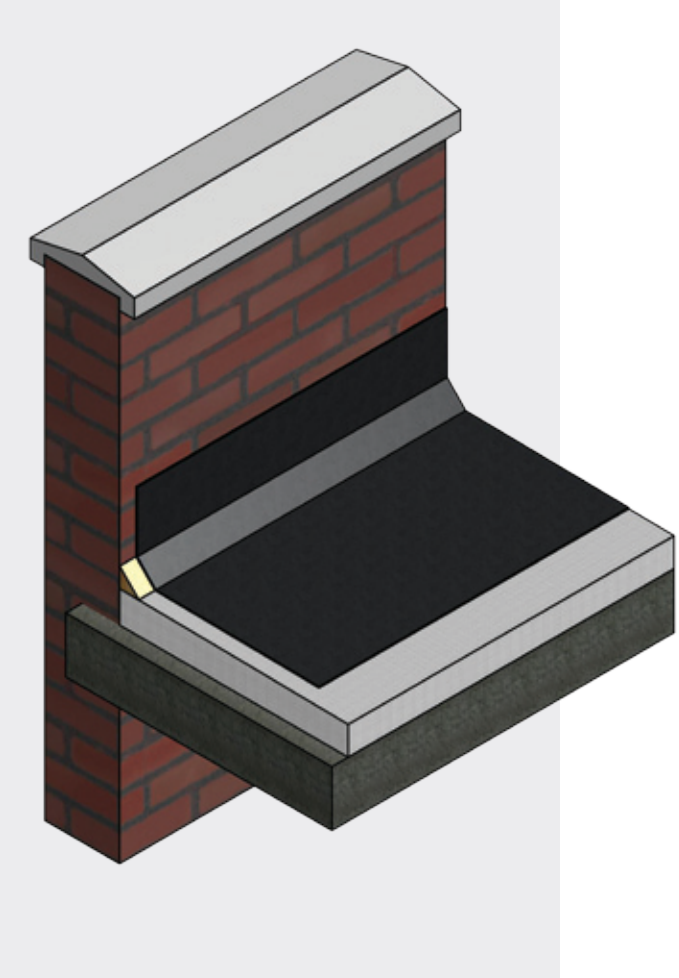
LIGHT WEIGHT ROOF SCREED - ISOVER POLITERM BLU

Isover Politerm Blu EPS beads are treated with a chemical additive to enable the production of lightweight, thermal insulation mortars of various densities.



KEY FACTS

- Easy to mix, place and finish
- Cost effective
- Homogenous bead distribution gives good workability and predictable performance
- Good workability enables mixed material to be pumped 100m horizontally and 30m vertically
- Mix design variable to produce densities from 200kg/m^3 to 1000kg/m^3
- Compatible with most finishing products and adhesives

K VAL 0.065 W/mK to 0.103 W/mK

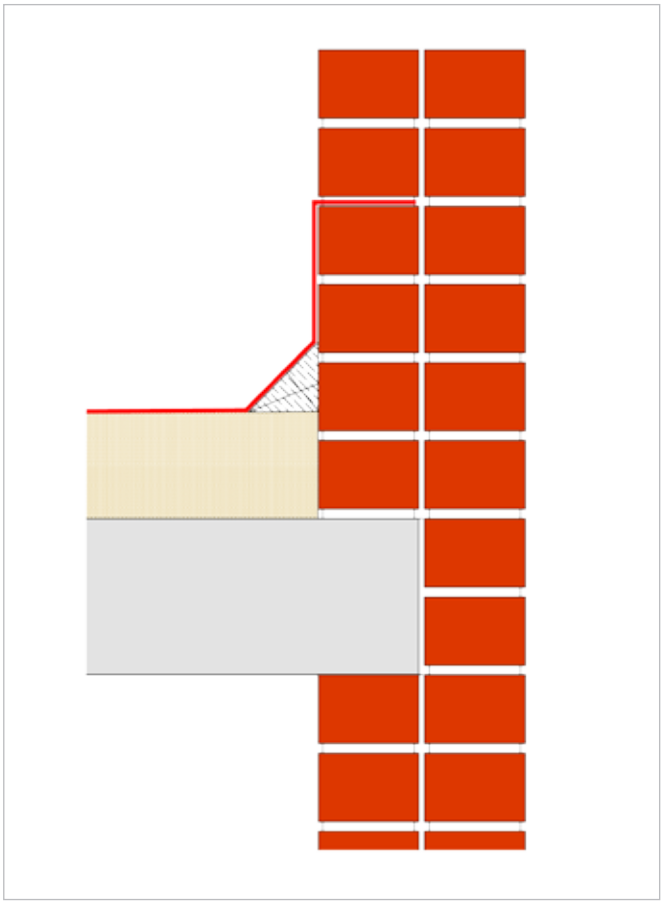
APPLICATIONS

Thermal insulation mortar for concrete roofs

SECTORS

All sectors

LIGHT WEIGHT ROOF SCREED



SPECIFICATION

Apply Isover Politerm Blu with water and cement or with water, cement and sand to meet the required screed density. Material must be mechanically mixed in either a purpose made mixer/pump, conventional concrete mixer, truck mixer or specialised mortar mixer/pump. Apply Isover Politerm Blu screed onto the concrete saturated with water or suitably primed. Isover Politerm Blu screed mix shall be laid to fall to rainwater outlets at a minimum thickness of 50mm. The maximum thickness will be determined by the distance of the fall.

The use of steel or timber guides is recommended to ensure accuracy and enable the use of a straight-edge to strike off the mortar. Finish the surface by trowelling in a thin skim of sand and cement prior to setting, or allow Isover Politerm Blu screed to harden and sand off the surface with a disc sander. Install steel reinforcements where required. Isover Politerm Blu must be kept damp to allow for sufficient curing. Allow Isover Politerm Blu screed to dry completely before applying waterproofing.

LIGHT WEIGHT SCREED ROOF INSULATION

	Light weight screed	Minimum thickness mm	Surface preparation	K-Value[1] W/mK	Mixing
1	Isover Politerm Blu	50	Saturate slab with water or Suitably prime the surface	0.065 to 0.103 W/mK	Cement only Sand + cement

TECHNICAL CHARACTERISTICS OF ISOVER POLITERM BLU

Technical characteristics				
Cement Dosage kg/m^2	200	250	300	350
Thermal conductivity W/mK	0.065	0.067	0.08	0.103
Compressive strength N/mm^2	0.69	0.83	1.48	1.69
Flexural strength N/mm^2	0.37	0.46	0.6	0.59
Cohesion kPa	82.62	82.62	127.17	n.d.
Hot-sealed membrane rupture N/50 mm	57	n.d.	62	21.28
Cold-sealed membrane ruptureN/50 mm	35	n.d.	47	13
Elasticity module N/mm^2	235.3	n.d.	489.5	n.d.
Permeability to water vapour	10.11	11.5	12	21.04
Shrinkage (NBN) mm/n	0.427	n.d.	0.352	0.27
Fire reactivity	Mo UBAtc-B2 DIN 4102 class CXZ non flammable			
Inflammability ASTM D 1692-68				

Dosage for 1m yield of lightweight thermal insulation screed				
Density kg/m^3	Approximate litres of water	Cement (kg)	Number of Politerm Blu Ready Mix bags yielding 500l	Sand (kg)
200	80-100	200	2	-
250	100-120	250		-
300	120-150	300		-
350	140-175	350		-
400	100-120 + sand hydration	250	2	125
500				225
900			1.6-1.7	590

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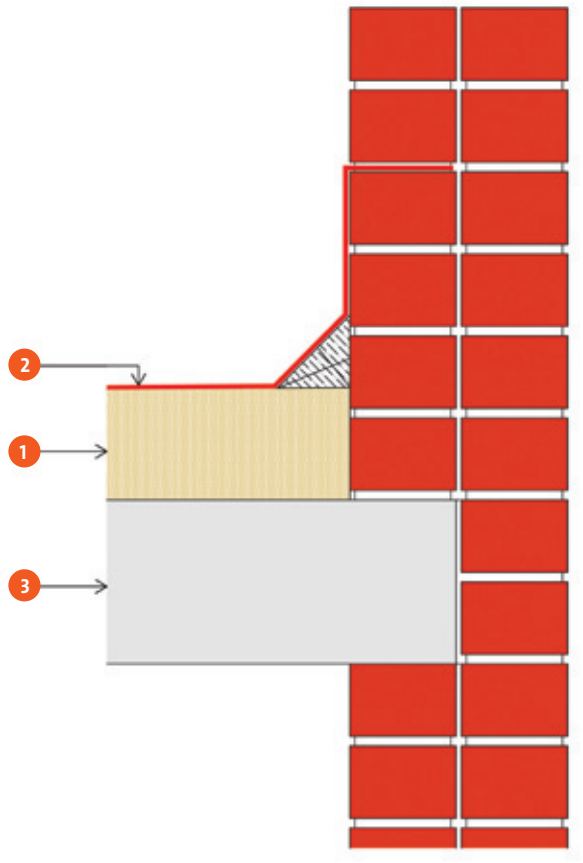

KEY

1. Isover Politerm Blu Screed laid to fall
2. Water proofing
3. Roof slab