

POLITERM[®] R BILLE DE POLYSTYRÈNE

420 litres

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170 litres

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POLITERM[®] **R**

REGENERATED PRE-ADDITIVATED EXPANDED POLYSTYRENE FOR THE PREPARATION OF LIGHTWEIGHT INSULATING MORTARS

POLITERM® R Regenerated pre-additivated expanded polystyrene for the preparation of lightweight insulating mortars

COMPOSITION	Regenerated expanded virgin polystyrene beads: size between Ø 2 - 6 mm, controlled density, non-toxic, non-absorbent, dimen- sionally stable over time, produced without the use of chlorofluorocarbons (CFC-free, HCFC-free), and free of nutritional values that could grow up fungi and bacteria. The beads are pre-additivated during the production with a specific E.I.A. additive, ensuring perfect mixability with the water binder, non-floatability, and homogeneous distribution in the mixture.
PACKAGING AND STORAGE	 Bag of 420 L (n° 2 bags = 1 m³ of finished mortar). Bag of 170 L (n° 5 bags = 1 m³ of finished mortar). Keep the product away from water and humidity. Store the product in the original, intact, and well closed bags. Store the product in a dry and well-ventilated place, away from frost, heat sources and direct sunlight.
APPLICATION FIELDS	 Base screeds for basements and pilotis floors, space between floors, roofs and wooden floors. Insulation of unwalkable attic. Filling of vaults, even of high thickness. Filling of under asphalt pavement. Screeds for industrial floorings.
CONSUMPTION / YIELD	To fill a volume of 1 m ³ : · N° 2 bags of Politerm [®] R 420 L + water + cement *. · N° 5 bags of Politerm [®] R 170 L + water + cement *. * check the prescribed mixture.
PREPARATION OF Laying Surface	 The laying surface must be consistent, clean and free from dust and debris of all kinds. Cement-based, latero-cement, absorbent laying surfaces: moisten abundantly the surface avoiding water stagnation. The wetting must be done as you proceed with the laying of the lightweight screed. Highly absorbent laying surfaces (hollow flooring blocks, hollow tiles, etc.): proceed with the perfect cleaning and dedusting of the laying surface. Apply a grout promoting of adhesion and reducer of absorption, composed of cement / Edilstik / clean water (ratio Edilstik / water 1:1). After the drying, wet the surface and gradually proceed with the laying of the lightweight screed. Poorly absorbent laying surfaces (very closed concrete floors, etc.): treat the laying bottom, before continuing to pour the mortar with Politerm[®] R, treat previously the surface with the adhesion promoter latex (like Edilstik) and proceed "fresh on fresh". As alternative make an adhesion bridge with cement grout, hydrated with water and Edilstik or use a suitable anchorage primer. Non-absorbent laying surfaces (membranes, metal, ceramic, insulating sheets, etc.): before pouring the mortar with Politerm[®] R, lay a galvanized metal mesh well spaced from the laying surface (positioned at least one third of the final thickness of the casting that will be performed).



Edilteco S.p.A. Via dell'Industria, 710 . 41038 San Felice sul Panaro (MO) Italy Ph. +39 0535 82161 . Fax +39 0535 82970 . www.edilteco.com l info@edilteco.com For the mixture use Cem I cement or limestone Cem II cement, in accordance with UNI norm and in perfect conservation state. Different or poor-quality cements may affect the functionality of the E.I.A. additive, with which the Politerm® R beads are treated, and could make the mixture difficult, affecting the conformity of the final characteristics of the mortar.

	Dosage for 1 m 3 (1000 L) of lightweight thermal insulating mortar:								
	FORMULA	POLITERM® R Bags	WATE	ER L	CEMENT kg		SAND *		
	200	//2011 · n° 2	9()	200		not necessary		
	200	or	14	J	200	not			
	250	170 L: n° 5	14	n	250				
	000 000 Docade for 1/5 m ³ (200 L) of lightweight thermal insulating marter (see dough in a compart mixer):								
	FORMULA	POLITERM® R BAGS	WATE	ER L	CEMENT kg		SAND *		
	200		18	}	40				
	250		22	2	50		not necessary		
MIXTURE AND APPLICATION	300	1/U L: N ⁻ 1	28	3	60	noi			
	350		32	2	70				
	* Sand is not necessary thanks to the mixing features of Politerm [®] R. Anyway, it is possible to use it, but it will lead to lower performance in terms of lightening, thermal insulation and water retention. In case of use, the water dosages will vary accordingly to the amount of sand and its residual humidity. The utilisation of sand may be necessary when "Turbosol" pumps for sand and cement screeds are used for the pumping.								
	 Horizontal mixer. Mixing and pumping: mortars made with Politerm[®] R can be mixed and pumped on the surface with: Specific equipment like Politerm[®] Machine or Isolcap Machine (you can consult the equipment depliant). Pumps like "Turbosol" for screeds made with sand and cement (please contact Edilteco's technical department). Order of introduction of components with Politerm[®] Machine: 1. Turn on the mixer; 2. Insert the necessary water according to the formulation; 3. Insert 1 bag of Politerm[®] R; 4. Put the necessary cement for the formula; 5. Insert the second bag of Politerm[®] R; 6. Mix for 10 minutes (including the introduction time) before pumping. Antifreeze usage: at a temperature below +5 °C it is recommended to add antifreeze liquid in the in the doses recommended by the manufacturer according to the dosage of cement. The use of antifreeze additives is compatible with the physico-chemical features of Politerm[®] R. 								
WARNINGS	 Do not apply at temperatures below +5 °C or under direct sunlight or with temperatures higher than +35 °C. If the application is under direct sunlight the necessary precautions must be taken (such as scaffolding mesh and others). The installation of sound-absorbing perimeter bands with a height higher than that of the floor is recommended. Minimum thickness: a) Absorbent surfaces: 5 cm. For thicknesses less than 5 cm please consult the "Manual of use and application" or contact the Edilteco's technical department. b) Non-absorbent surfaces: please consult the "Manual of use and application" or contact the Edilteco's technical department. 								
				FORMULA					
	CHARACTERISTIC			200	250	300	350		
	Density at 28 days kg/n	n³:		approx 215	approx 274	approx 315	approx 365		
	Thermal conductivity λ	"W/m·K:		0.065	0.078	0.080	0,103		
TECHNICAL CHARACTERISTICS	Compressive strength N	I/mm ² :		0.37	0,51	1,61	1.69		
	Flexural strength N/mm	l ² :		0,46	0,65	0,95	0,59		
	Coefficient of water var	pour permeability µ:		5,9	5,0	7,2	9,2		
	Average water absorpti	on W_:		1,194 ± 0.173					
	Specific heat J/kg·K:	p		1000 *					
All the indications provided in this technical data on building sites the final characteristics of the p for its specific use, undertaking all liability impli reserves the right to change the contents of this charter inducts a while the contents of this	sheet are purely approximate and products may be subject to substa cit in and deriving from use of the s mechanical data sheet on its fir	not binding for legal purpose. The d ntial variations depending on the m product, as well as comply with a nal judgements. The spreading of t	ata listed has been neteorological con Il methods and ins nis data sheet thr	n gathered from la ditions and the in structions for use ough any media,	aboratory tests and it her stallation. The user must generally referable to " supersedes and cancels	nce follows that in pra always check suitab workmanlike" execut the validity of any of	ctical applications ility of the product ion. Edilteco S.p.A. ther technical data		

* 1000 J/kg·K = 0,24 kcal/kg·K



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LEED CRITERIA	SECTION	CREDITS	TECHNICAL DESCRIPTION
	Energy and Atmosphere (EA)	Prerequisite 2	Minimum energy performance
		Credit 1	Optimisation of energy performance
	Materials and Resources (MR)	Credit 5	Materials extracted, processed and products at a limited distance (regional materials)



DS POLITERM® R . Rev 11/2023 . GB

