



# TECHNOLOGY POLITERM® WALL CAST

**SUPERLIGHT THERMAL INSULATING AGGREGATES  
FOR DRY BLOWING INTO CAVITY WALLS. READY TO BE MIXED.**

**POLITERM® WALL CAST TECHNOLOGY with POLITERM® BLU FEIN**  
Superlight thermal insulating aggregates for dry blowing into cavity walls. Ready to be mixed.

<p><b>PRODUCT</b></p>	<p>Closed-cells virgin beads of expanded polystyrene, with fine grain-size (<math>\varnothing</math> 2 mm), perfectly spherical, with controlled density, non-toxic, non-absorbent, rot-proof, dust free, dimensionally stable over time, with no nutritional values for the growth of fungi and bacteria. The production is completely free of chlorofluorocarbons. During the production process, the beads are coated by the special E.I.A. additive, which guarantees the perfect mixing with the water binders, the prevention of the bead flotation phenomenon and their homogeneous distribution in the mixture.</p>	
<p><b>PACKAGING AND STORAGE</b></p>	<ul style="list-style-type: none"> <li>· Bag of 170 L [n° 5 bags = 1 m<sup>3</sup> of finished mortar].</li> <li>· Bag of 420 L [n° 2 bags = 1 m<sup>3</sup> of finished mortar].</li> <li>· Keep the product away from water and humidity. Store the product in the original closed packages. Store the material in a dry, well-ventilated place, away from frost, heat sources and direct sunlight.</li> </ul>	
<p><b>APPLICATION FIELDS</b></p>	<ul style="list-style-type: none"> <li>· Thermal insulation, filling of cavity walls and closed spaces.</li> <li>· Energy efficiency works on existing buildings, where any other type of thermal insulation work is not possible. It can be realized also on single houses or flats.</li> </ul>	
<p><b>CONSUMPTION / YIELD</b></p>	<p>To fill a volume of 1 m<sup>3</sup>, 2 bags of Politerm® Blu Fein 420 L are necessary, or 5 bags 170 L (+ 150 kg of cement + water).</p>	
<p><b>PREPARATION FOR THE BLOWING OF THE FLUID MORTAR</b></p>	<p>Before starting to blow Politerm® Wall Cast, it is necessary to prepare the suitable openings on the walls (dimension according to the <math>\varnothing</math> of the pumping hoses) for the introduction of the product and the extraction of the air into the cavity wall.</p> <ul style="list-style-type: none"> <li>· Extensions up to 4 m: n° 3 openings.</li> </ul> <p>The openings must be done in the two corners and into the centre of the wall, to the highest position to guarantee the complete filling of the volume.</p> <ul style="list-style-type: none"> <li>· Extensions over 4 m: at least one opening for every 2 m. Through the openings it would also be possible to check the maximum level of filling.</li> </ul>	
<p><b>MIXING AND BLOWING</b></p>	<p>The fluid mortar prepared with Politerm® Blu Fein can be mixed and pumped to the floor: by specific equipment, Politerm® Machine / Isolcap Machine.</p> <p><b>Introduction order of the components using Politerm® Machine / Isolcap Machine:</b></p> <ol style="list-style-type: none"> <li>1. Switch the mixer on;</li> <li>2. pour the necessary water according to the formula;</li> <li>3. pour 1 bag of Politerm® Blu Fein;</li> <li>4. pour the necessary cement according to the formula;</li> <li>5. pour one or more bags of Politerm® Blu Fein;</li> <li>6. mix for 5 minutes (introduction time included) before to pump.</li> </ol> <ul style="list-style-type: none"> <li>· Do not apply at temperatures below +5 °C.</li> </ul>	



Thermal Insulation & Chemicals Division



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COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001 =

TECHNICAL CHARACTERISTICS	CHARACTERISTIC	150 FORMULA
	Density after 28 days kg/m <sup>3</sup> :	150 ca.
	Thermal conductivity $\lambda_0$ W/mK:	0,049
	Compressive strength of the mortar N/mm <sup>2</sup> :	0,360
	Coefficient of permeability to water vapour $\mu$ :	5,9
Specific heat J/kgK:	1000 *	

All the indications provided in this technical data sheet are purely approximate and not binding for legal purpose. The data listed has been gathered from laboratory tests and it 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. Edilteco S.p.A. reserves the right to change the contents of this mechanical data sheet on its final judgements. The spreading of this data sheet through any media, supersedes and cancels the validity of any other technical data sheet previously published.

\* 1000 J/kgK = 0,24 kcal/kgK

## BLOWING EQUIPMENT Politerm® Wall Cast

### ISOLCAP MACHINE

Equipment in stainless steel, for the mixing and pumping of light-weight mortars (Isolcap range) composed of lightweight aggregates, such as virgin or regenerated EPS beads, perlite, vermiculite, cork and self-levelling mortars (cement or anhydrite-based). With water dosage system.

*Maximum length of the pipe:* 30 m.

*Maximum pumping height:* 15 m.

*Power supply:* 2,2 kW - 400 V.

*Weight:* 320 kg.

*Tank capacity:* 220 L.



### POLITERM® MACHINE 1000 H2O

Equipment completely in stainless steel for the preparation (mixing) and pumping of lightweight mortar composed of aggregates like virgin expanded polystyrene beads, regenerated expanded polystyrene beads, perlite, vermiculite and cork, also when mixed with foam made with appropriate equipment. With water dosage system.

*Maximum length of the pipe:* 100 m.

*Maximum pumping height:* 30 m.

*Power supply:* 400 V - 50 Hz.

*Also available with diesel fuel:* homologated according to the current standards for noise pollution.

*Available with tank capacity:*  
· 1 m<sup>3</sup>.



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