

TECHNICAL DATA SHEET

Fiberglass mesh BICO EXPERT 145 g

EUROPEAN TECHNICAL ASSESSMENT – ETA 23/0477 of 2023

DESCRIPTION

Fiberglass mesh is a product characterized primarily by resistance to alkaline environment. It is coated with a layer of SBR (Styrene-Butadiene).

The fiberglass mesh with the weight of 145 g/m² confers resistance to the wallrendering and a lifetime equal to that of the plasters it reinforce.

DESTINATION AND FIELD OF USE

- ✓ Fiberglass mesh with the weight of 145 g/m² is used as reinforcing element for external thermal insulation system (ETICS) based on mineral wool, expanded polystyrene or other type of thermal insulation board;
- ✓ Reinforcement of interior and exterior plasters, protecting them from cracking;
- ✓ Manufacture of reinforcement layers for facades renovations.

TECHNICAL CHARACTERISTICS

Essential characteristics	Harmonised technical specification		Performance	
Mass per unit area	EAD 040016-01-0404, clause 2.2.8		145 g/m ² ±5%	
Mesh size	EAD 040016-01-0404, clause 2.2.5	Average mesh size	5x5,2 mm	
		Average mesh opening	4,6x4,1 mm	
		Coverage ratio	27%	
Tensile strength and elongation	EAD 040016-01-0404 clause 2.2.7	Number of threads within the width of 50 mm of the sample used for tensile strength testing	Warp direction	Weft direction
			10	10
		In the initial state -tensile strength $\tau_{max,m}$ - tensile strength $R_{50,m}$ -elongation ϵ_m	Warp direction	Weft direction
			28 kN/m	47 kN/m
			1410 N/50 mm	2360 N/50 mm
			3,2%	4 %
		After alkalis	warp	weft

		<i>conditioning</i> - tensile strength $\tau_{\max, m}$ - tensile strength $R_{50, m}$ - elongation ϵ - residual value of tensile strength $\Delta \tau_{\max, ag}$	20 kN/m 1025 N/50 mm 2,3 % 71,4%	32 kN/m 1578 N/50 mm 2,5 % 68,1 %
Organic content	EAD 040016-01-0404, clause 2.2.2		Ash content	Organic content
			79,1 %	20,9 %
Gross heat of combustion	EAD 040016-01-0404, clause 2.2.3		8,475 MJ/kg	

CERTIFICATIONS

The manufacturer **S.C. BICO INDUSTRIES S.A.** has implemented an integrated management system: quality, environment, occupational health and safety, according to **ISO 9001, ISO 14001 and ISO 45001 - AEROQ** certificates.

CLASSIFICATION ACCORDING TO CHEMICAL STANDARDS. POSSIBLE RISKS, PREVENTION REQUIREMENTS

Fiberglass mesh does not require marking and is not a dangerous product.
According to Regulation (EC) no. 1907/2006 of the European Parliament and of the Council, the fiberglass mesh does not require the safety data sheet.

SPECIFIC CONDITIONS, STORAGE, TRANSPORTATION

- ✓ **Specific conditions:** it is recommended to be stored in clean, dry places, at temperatures between -5°C and 30°C, protected from the direct radiation of any heat source or from the direct action of the sun's rays;
- ✓ **Storage:** to be stored in rolls positioned vertically, in covered and appropriate storages;
- ✓ **Transportation:** the rolls of fiberglass mesh, positioned vertically on pallets, are being transported with adequate and covered transportation.

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