



ard f.lli raccanello s.p.a. paints and enamels industry

TECHNICAL DATA SHEET n° 501

Cod. 9.968.0095

expandit eps 100 etics

Panel in white expanded polystyrene

GENERAL CHARACTERISTICS

High-level insulation panels for building façades, in sintered closed-cell expanded polystyrene, compliant with ETAG 004 (2013 version) requirements and with the harmonised UNI EN 13163:2013 standard.



EXPANDIT EPS 100 ETICS is suitable for gluing onto mineral plasters, old coating systems or highly adherent paints, on bricks and, more generally, on all complementary building supports. Regardless of clichés, the product can boast noteworthy ecologic qualities, as it is made with expanding gases which have no negative impact on the environment (free from chlorofluorocarbons-CFC). In light of its composition, with a 98% of air, it offers excellent performance levels with a very low use of plastic material, ensuring extremely low environmental impact. It is also 100% regenerable with negligible environmental impact.

RULES FOR USE

Preparation of the support

- The support must be clean, dry, coherent and free from dusty or oily substances which may compromise a correct adhesion. Carefully remove any non-adherent or semi-detached parts from previous coating solutions. Any cavities or recesses must be filled in until the surface is flat. Apply one coat of ISOLEX W or correctly diluted ARDFIX.

Application

- Apply the ARDCOAT skimming adhesive for insulation systems on the panels, following the instructions from the correspondent Technical Data Sheet.
- Lay the panels by following a bottom-up approach, pressing them against the wall and removing any overflowing ARDCOAT residues. Make sure that the panels adhere precisely to one another. The rows of insulant panels must be applied staggered by 50% one under the other, in order to avoid cross joints. Any empty spaces between the panels must be filled with insulant panel strips or, if necessary, with ARDCOAT PU adhesive foam.
- Shade the panels with suitable tarpaulins to decrease the surface temperature of the panels if exposed to direct sunlight, until the adhesive has reached its full curing.
- The panels must be kept in dry environments and not be exposed to intense cold. Do not expose them to direct sunlight for long periods of time.

TECHNICAL DATA

DENSITY	20 kg/m ³ ± 6%
THICKNESS	50-200 mm ± 1
LENGTH	1000 mm ± 2
WIDTH	500 mm ± 2
SQUARENESS/PERPENDICULARITY TOLERANCE	± 2/1000 mm
FLATNESS TOLERANCE	± 5 mm
FLEXURAL STRENGTH	170 kpa
RESISTANCE TO TENSILE STRESS PERPENDICULAR TO THE PANEL FACES	200 kpa
LONG-TERM WATER ABSORPTION LEVEL PER TOTAL IMMERSION	≤ 0,5% Vol limit val.
PERMEABILITY TO WATER VAPOUR μ	30-70
DECLARED THERMAL CONDUCTIVITY	0,035 10°C W/mK
REACTION TO FIRE	Class E
LINEAR EXPANSION COEFFICIENT	0,05x10 ⁻³ K ⁻¹
THERMAL TRANSMITTANCE WITH A THICKNESS OF 80 mm	0,438 W/m ² K
WITH A THICKNESS OF 100 mm	0,350 W/m ² K
WITH A THICKNESS OF 120 mm	0,292 W/m ² K
WITH A THICKNESS OF 140 mm	0,250 W/m ² K
WITH A THICKNESS OF 160 mm	0,219 W/m ² K
WITH A THICKNESS OF 180 mm	0,194 W/m ² K
WITH A THICKNESS OF 200 mm	0,175 W/m ² K

TECHNICAL SPECIFICATIONS

INSULANT PANELS IN EXPANDED POLYSTYRENE

Supply and installation of insulant panels in sintered closed-cell white expanded polystyrene, suitable for insulation systems, with a tensile strength of 200 kPa, a density of 20 Kg/m³, manufactured in compliance with the UNI 13163 standard and in observance of ETICS rules, low flammability in class E, thermal conductivity $\lambda = 0,035$ W/mK in accordance with UNI EN 12667, steam diffusion coefficient $\mu = 30-70$ and dimensions of cm 50x100, EXPANDIT EPS 100 ETICS type. € per square metre.

The data in this report refers to the time of the Quality Control and to normalised environmental conditions. Mechanical resistance levels are measured in standardised conditions which may differ from those in the work site.

*Information in this sheet has indicative value, as it is impossible to list the specific conditions for each installation.
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