NEOTEX S.A.
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CONSTRUCTION CHEMICALS
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TECHNICAL DATA SHEET

N-Thermon®

Extruded polystyrene hard foam in panel form of 6 and 9mm thickness, for energy conscious renovation.

Applications

- on damp – cold outside walls
- on cold separating walls
- on cold cellar walls
- on thermal bridges (marks), cracks in plaster
- in room corners (mould)
- for heat loss in heater niches
- in window and door jambs
- on and in roller shutter casings
- on walls behind furniture
- on ceiling surfaces
- on roof slopes
- as an under coat for floor heating
- under chip board, prefabricated parquet and laminate floors (tongue and groove systems)
- for many handicrafts in model building

Properties

- Quickly increases the interior temperature during heat circulation. The temperature of the inner wall can be increased by up to 5% in winter.
- Does not absorb any water, is not imbued
- Reduces the penetration of water vapour, offers moisture protection for walls and ceilings and offers energy saving capacity up to 17,7% (N-Thermon 6 mm) and 28,3% (N-Thermon 9 mm)
- It is resistant to cement, lime scale, gypsum and salt (blooms), alkalis and against nearly all aqueous media (not resistant to organic solvents)
- Does not decay or grow mould, does not offer nutrition for mildew, is odourless
- It can be used both as a moisture protective middle layer and to increase the heat and impact noise insulation under chipboard, ready-to-use parquet and laminate floors (tongue and groove systems)

Technical Characteristics

Thickness: **6 mm and 9 mm**
Density: 33 kg/m³ and 35 kg/m³(according to EN ISO 845) respectively
Sheet dimension: 1,25 m x 0,80 m
Thermal conductivity (λ): 0,0306 and 0,0307 W/mK (according to DIN 52612)
Water vapour diffusion resistance value (μ): 450 and 300 (according to DIN 52615)
Water Vapour Diffusions-equivalents of air-layer thickness (μ x s/1000): 2,70 m and 2,70 m (according to DIN 52615)
Impact noise improvement (N-Thermon 6 mm) : Δlw=+16dB (according to DIN 52210)
Compressive stress at 10% compression: 0.15 N/mm^2 (according to DIN 53421)
Thermal Resistance value (1/Λ): 0,1961 and 0,293 m^2K/W
Heat penetration value: 2,4 and 2,4 $KJ/m^2h^{0,5}K$

Application Procedure

Applying adhesive N-Thermon Glue®: Apply the adhesive to the under coat evenly in an area of the panel size, using a notched trowel
Laying the panel: Place the N-Thermon® insulating panel with the marked backside (N-Thermon® imprint) in the wet adhesive and roll it out well. Roll out air bubbles to the sides.
Consecutive bonding: The insulating panels are placed always with two ways – Either the one next to the other followed by a stroke without leaving gaps or by overlapping with double-cut and strips removing.
Roll it out well: Roll out the cutting edges evenly with the rubber roller. Any later required filling has to be carried out with the adhesive N-Thermon Glue®, using dispersion spackle. Remove dust from smoothed putty areas and prime in the case of high absorbency.
Drying times: Adhesive and subsequently applied primer coats must be left to dry for at least 24 hours. The drying of the adhesive and firm position of the N-Thermon insulating panels are to be checked in several positions using a cross section and removal test, before it is further processed.

Notes

After application procedure, N-Thermon® insulating panels might: be overcoated by a waterbased premium quality paint and for better mechanical stress, coating shall be combined with fiberglass Gavatex .

Packing

Package sheet 6mm: 30sheets=$30m^2$
Package sheet 9mm: 20sheets=$20m^2$