

EKOPRODUR S0542

CHEMICAL NAME	Polyurethane system
TECHNICAL REQUIREMENTS	<p>These recommendations are based on experience in applying the spray foam with the machine Graco Reaktor H-XP3 with the gun PROBLER P2 ELITE (01 mixing chamber).</p> <p>Components volumetric ratio POLY : ISO.....100 : 100 Components heating temp:..... 35 - 45°C Hoses temperature:..... 35 - 45°C Components pressure: 70 - 100 Bar (1015 - 1450 psi) Component drum temperatures: 15 – 30°C The recommended ambient temperature:15 - 35°C Recommended surface temperature should:15 - 50°C Ambient relative humidity:≤ 70% Humidity on the porous surface: to 15% Nonporous surface should be dry:(0%)</p>
GENERAL DATA	<p>Core density:..... ≥ 59 kg/m³ PN-EN 1602:2013-07</p> <p>Fire classification E; B_{ROOF}(t1) PN-EN 13501-1+A1:2010</p> <p>Short-term water absorption by partial immersion:..... $W_p \leq 0,12 \text{ kg/m}^2$ PN-EN 1609:2013</p> <p>Thermal conductivity:..... $\lambda_{\text{mean},i} = 0,020 \text{ W/(m}\cdot\text{K)}$ $\lambda_{90,90} = 0,021 \text{ W/(m}\cdot\text{K)}$</p> <p>Declared value λ_D for the thicknesses: One diffusion-tight lining</p> <p style="text-align: right;">dN < 80 mm 0.026 W/(m·K) 80 mm ≤ dN < 120 mm 0.024 W/(m·K) dN ≥ 80 mm 0.023 W/(m·K) PN-EN 12667:2002</p> <p>Compressive strength: ≥ 300 kPa PN-EN 826:2013</p> <p>Water vapor resistance coefficient: $\mu \geq 70$ PN-EN 12086:2013-07</p> <p>Dimensional stability: 70°C, 90% RH, after 48h DS(70,90)3 -20°C, after 48h..... DS(-20,-)3</p>

Adhesion of the foam perpendicularly to the surface: ≥ 100 kPa
PN-EN 1607:2013

Closed cell content ≥ 90 %
PN-EN ISO 4590:2005

APPLICATION

EKOPRODUR S0542 is designed to perform external thermal insulation of roofs, foundations and internal thermal insulation of floors (flooring) by spraying.

EKOPRODUR S0542 is processed with the help of specialized high pressure blowing aggregates, equipped with a spray head.

The foam's excellent insulating properties were achieved through the use of, HFO, a fourth-generation foaming agent from the hydro-fluoroolefin group with a low GWP = 1 and zero ozone depletion potential ODP = 0.