

EKOPRODUR S0540

CHEMICAL NAME Polyurethane system

TECHNICAL REQUIREMENTS

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).

Components volumetric ratio POLY : ISO.....100 : 100
 Components heating temp:..... 30 - 45°C
 Hoses temperature:..... 30 - 45°C
 Components pressure: 70 - 100 Bar (1015 - 1450 psi)
 Component drum temperatures: 15 – 30°C
 The recommended ambient temperature:10 - 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%)

GENERAL DATA

Core density:..... $\geq 50 \text{ kg/m}^3$
 PN-EN 1602:2013-07
 Fire classification E; B_{ROOF}(t1)
 PN-EN 13501-1+A1:2010
 Short-term water absorption by partial immersion:..... $W_p \leq 0,11 \text{ kg/m}^2$
 PN-EN 1609:2013
 Thermal conductivity:..... $\lambda_{\text{mean},i} = 0,022 \text{ W/(m}\cdot\text{K)}$
 $\lambda_{90,90} = 0,023 \text{ W/(m}\cdot\text{K)}$
 Declared value λ_D for the thicknesses:
 One diffusion-tight lining
 $dN < 40 \text{ mm } 0.029 \text{ W/(m}\cdot\text{K)}$
 $40 \text{ mm} \leq dN < 60 \text{ mm } 0.028 \text{ W/(m}\cdot\text{K)}$
 $dN \geq 60 \text{ mm } 0.027 \text{ W/(m}\cdot\text{K)}$
 PN-EN 12667:2002
 Compressive strength: $\geq 300 \text{ kPa}$
 PN-EN 826:2013-07
 Water vapor resistance coefficient: $\mu 165$
 PN-EN 12086:2013-07
 Dimensional stability:
 70°C, 90% RH, after 48h $d \leq 4 \%$
 $sz \leq 4 \%$
 $g \leq 1 \%$
 -30°C, after 48h..... $d \leq 2 \%$
 $sz \leq 2 \%$
 $g \leq 0,5 \%$

Adhesion of the foam perpendicularly to the surface: ≥ 400 kPa
PN-EN 1607:2013
Total relative deformation: 48 h, 20 kPa, 80°C $\leq 0,95\%$
EN 1605:2013-07
Closed cell content $\geq 90\%$
PN-EN ISO 4590:2005

APPLICATION

EKOPRODUR S0540 is designed to perform external thermal insulation of roofs, foundations and internal thermal insulation of floors (flooring) by spraying.

EKOPRODUR S0540 is processed with the help of specialized high pressure blowing aggregates, equipped with a spray head.