EKOPRODUR S0541

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:..…….…… 35 - 45ºC
Hoses temperature:…….……..…… 35 - 45ºC
Components pressure: …… 70 - 100 Bar (1015 - 1450 psi)
Component drum temperatures: ……..…….. 15 – 30ºC
The recommended ambient temperature: ……..…..15 - 35ºC
Recommended surface temperature should: ……15 - 50ºC
Ambient relative humidity: ……...≤ 70%
Humidity on the porous surface: …….. to 15%
Nonporous surface should be dry: ……..……..(0%)

GENERAL DATA

Core density:……..……..…… ≥ 49 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 ≤ 0,12 kg/m^2
PN-EN 1609:2013

Thermal conductivity:…… $\lambda_{mean,i}$ = 0,020 W/(m·K)
$\lambda_{90,90}$ = 0,021 W/(m·K)

Declared value λ_D for the thicknesses:
One diffusion-tight lining
dN < 80 mm 0.026 W/(m·K)
80 mm ≤ dN < 120 mm 0.024 W/(m·K)
dN ≥ 120 mm 0.023 W/(m·K)
PN-EN 12667:2002

Compressive strength: ……..…… ≥ 300 kPa
PN-EN 826:2013-07

Water vapor resistance coefficient: ..……..... ≥ 70
PN-EN 12086:2013

Dimensional stability:
70ºC, 90% RH, after 48h …..…….. DS(70,90)3

-20ºC, after 48h……..…….. DS(-20,-)3

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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 S0541 is designed to perform external thermal insulation of roofs, foundations and internal thermal insulation of floors (flooring) by spraying.
EKOPRODUR S0541 is processed with the help of specialized high pressure blowing aggregates, equipped with a spray head. The foam's excellent insulating properties have been achieved through the use of HFO, a fourth-generation foaming agent from the group of hydrofluoroolefins with a low greenhouse effect potential GWP = 1 and zero ozone depletion potential ODP = 0

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