EKOPRODUR S11E-MAX

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) and Twistork helix mixer.

Components volumetric ratio POLY : ISO……..……100 : 100
Components heating temp:..…….…… 50 - 60ºC
Hoses temperature:……..…… 50 - 60ºC
Components pressure: …… 80 - 110 Bar (1160 - 1595 psi)
Component drum temperatures: ……..…….. 30 – 40ºC
The recommended ambient temperature: ……..…….....10 - 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:……..……..…….…… ≥ 6,5 kg/m^3
PN-EN 1602:2013-07
Fire classification …….…..... E ; Bs_1d_0
PN-EN 13501-1+A1:2010
Short-term water absorption by partial immersion:…..…. $W_p \leq 2,85$ kg/m^2
PN-EN 1609:2013
Thermal conductivity:…… $\lambda_{mean,i}$ = 0,037 W/(m·K)
$\lambda_{90,90}$ = 0,038 W/(m·K)
Declared value: ……..…… λ_D = 0,038 W/(m·K)
Heat transfer coefficient after exposure to high humidity
(50ºC, 90% relative humidity): ..…… $\lambda_{50C,90\%rh}$ = 0,038 W/(m·K)
PN-EN 12667:2002

Compressive strength at 10% relative deformation ……..…$\sigma_{10} \geq 5$ kPa
PN-EN 826:2013-07
Water vapor resistance coefficient: ..……..μ 6
PN-EN 12086:2013-07

Dimensional stability:
70ºC, 90% RH, after 48h …..…….. DS(70,90)4

-20ºC, after 48h…… DS(-20,-)4

Adhesion of the foam perpendicularly to the surface: ……..…. ≥ 15 kPa
PN-EN 1607:2013

Closed cell content ……..…… ≤ 15 %
PN-EN ISO 4590:2005

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Mould growth resistance: ……..... growth rate 0

APPLICATION

EKOPRODUR S11E-MAX is designed to perform internal thermal and acoustic insulation of roofs, attics, roofing, ceilings, walls in timber structures, brick, steel and skeletal systems of residential, industrial as well as public buildings, hangars and media premises by spraying.
EKOPRODUR S11E-MAX is processed with the help of specialized high pressure spraying agregates, equipped with a spray head.

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