CROSSIN® WALL

CHEMICAL NAME

Polyurethane system

TECHNICAL REQUIREMENTS

The 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.

Volumetric components ratio POLY : ISO…….. 100 : 100
Components (POLY and ISO) heating temperature: ...……30 - 45ºC
Heating the hoses: ……..……30 - 45ºC
Components pressure: …..…… 70 - 100 Bar (1015 - 1450 psi)
Components temperature (in drums):……..15 - 30ºC
Ambient temperature:…….....10 - 35ºC
Surface temperature: ……..……15 - 50ºC
Whereas ambient relative humidity: ……...≤ 70%
Porous surface humidity: ……..…… .do 15%
Non-porous surface should be dry:……..……...0 %

GENERAL DATA

Standards Core density:……..…… ≥ 34 kg/m^3
PN-EN 1602:2013-07

Fire classification ……..…..... E
PN-EN 14315-1

Short-term water absorption by partial immersion:……..……..…… Wp ≤ 0,11 kg/m^2
PN-EN 14315-1

Thermal conductivity: ……..…… $\lambda_{mean,i}$ = 0,021 W/(m·K)
$\lambda_{90,90}$ = 0,022 W/(m·K)
PN-EN 14315-1

Value to aging λ_D for a thickness:
d_N < 40 mm …….0,028 W/(m·K)
40 mm ≤ d_N < 60 mm …….0,027 W/(m·K)
d_N ≥ 60 mm …….0,026 W/(m·K)
PN-EN 14315-1

Compressive strength 10% relative deformation ……..……σ_{10} ≥ 150 kPa
PN-EN 14315-1

Resistance coefficient of water vapour diffusion..……..…….. μ 35-50
PN-EN 14315-1

Temperature stability:
70ºC, 90% RH, after 48h…….. d ≤ 4 %
sz ≤ 4 %
g ≤ 1 %

-30ºC, after 48h…….. d ≤ 2 %
sz ≤ 2 %

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g ≤ 0,5 %
PN-EN 1604:2013

Total relative deformation,
48h, 20 kPa, 80°C …….. ≤ 2,57 %
PN-EN 1605:2013

Adhesion of the foam perpendicular to the surface: ..…… ≥ 300 kPa
PN-EN 1607:2013

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

APPLICATION

CROSSIN® WALL is intended for the thermal insulation of walls, ceilings, attics, tanks, pipelines, partitions and facades by spraying. It can be successfully used in buildings including residential and commercial as well as in in agricultural and industrial.
CROSSIN® WALL is a polyurethane system that must be processed using the special foaming units, equipped with a spray head.

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