

CROSSIN® ROOF

CHEMICAL NAME	Polyurethane system										
TECHNICAL REQUIREMENTS	<p>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.</p> <p>Volumetric components ratio POLY : ISO.....100 : 100 Components (POLY and ISO) heating temperature:30 - 45°C Heating the hoses:.....30 - 45°C Components pressure:70 - 100 Bar (1015 - 1450 psi) Components temperature (in drums):15 - 30°C The recommended ambient temperature:10 - 35°C The recommended surface temperature:15 - 50°C Ambient relative humidity:≤ 70% The porous surface humidity:do 15% Non-porous surface should be dry:0 %</p>										
GENERAL DATA	<p>Standards Core density:..... ≥ 50 kg/m³ PN-EN 1602:2013-07</p> <p>Fire classification E PN-EN 14315-1</p> <p>Resistance to external fire: B_{ROOF}(t1) PN-EN 13501-5+A1:2010</p> <p>Short-term water absorption by partial immersion:..... Wp ≤ 0,11 kg/m² PN-EN 14315-1</p> <p>Thermal conductivity: $\lambda_{mean,i} = 0,022 \text{ W/(m·K)}$ $\lambda_{90,90} = 0,023 \text{ W/(m·K)}$ PN-EN 14315-1</p> <p>Value to aging λ_D for a thickness:</p> <table> <tr> <td>$d_N < 40 \text{ mm}$</td><td>0,029 W/(m·K)</td></tr> <tr> <td>$40 \text{ mm} \leq d_N < 60 \text{ mm}$</td><td>0,028 W/(m·K)</td></tr> <tr> <td>$d_N \geq 60 \text{ mm}$</td><td>0,027 W/(m·K)</td></tr> </table> <p>PN-EN 14315-1</p> <p>Compressive strength 10% relative deformation $\sigma_{10} \geq 300 \text{ kPa}$ PN-EN 14315-1</p> <p>Resistance coefficient of water vapour diffusion..... $\mu \geq 165$ PN-EN 14315-1</p> <p>Temperature stability:</p> <table> <tr> <td>70°C, 90% RH, after 48h.....</td><td>$d \leq 4 \%$ $sz \leq 4 \%$ $g \leq 1 \%$</td></tr> <tr> <td>-30°C, after 48h.....</td><td>$d \leq 2 \%$ $sz \leq 2 \%$</td></tr> </table>	$d_N < 40 \text{ mm}$	0,029 W/(m·K)	$40 \text{ mm} \leq d_N < 60 \text{ mm}$	0,028 W/(m·K)	$d_N \geq 60 \text{ mm}$	0,027 W/(m·K)	70°C, 90% RH, after 48h.....	$d \leq 4 \%$ $sz \leq 4 \%$ $g \leq 1 \%$	-30°C, after 48h.....	$d \leq 2 \%$ $sz \leq 2 \%$
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	$g \leq 0,5 \%$	PN-EN 1604:2013
Total relative deformation, 48h, 20 kPa, 80°C	$\leq 0,95 \%$	PN-EN 1605:2013
Adhesion of the foam perpendicular to the surface:	$\geq 400 \text{ kPa}$	PN-EN 1607:2013
Closed-cell content	$\geq 90 \%$	PN-EN ISO 4590:2005

APPLICATION

CROSSIN® ROOF is intended for the external, thermal insulation of flat roofs, roofs rich in biases and other types of roofing in buildings including residential and commercial as well as in agricultural and industrial (by spraying).

CROSSIN® ROOF is a polyurethane system that must be processed using the special foaming units, equipped with a spray head