

CROSSIN® FLOOR

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: λ_{mean,i} = 0,022 W/(m·K) λ_{90,90} = 0,023 W/(m·K) PN-EN 14315-1</p> <p>Value to aging λ_D for a thickness:</p> <table> <tr> <td>d_N < 40 mm</td><td>.....0,029 W/(m·K)</td></tr> <tr> <td>40 mm ≤ d_N < 60 mm</td><td>.....0,028 W/(m·K)</td></tr> <tr> <td>d_N ≥ 60 mm</td><td>.....0,027 W/(m·K)</td></tr> </table> <p>PN-EN 14315-1</p> <p>Compressive strength 10% relative deformation σ₁₀ ≥ 300 kPa PN-EN 14315-1</p> <p>Resistance coefficient of water vapour diffusion..... μ 165 PN-EN 14315-1</p> <p>Temperature stability:</p> <table> <tr> <td>70°C, 90% RH, after 48h.....</td><td>d ≤ 4 %</td></tr> <tr> <td></td><td>sz ≤ 4 %</td></tr> <tr> <td></td><td>g ≤ 1 %</td></tr> </table>	d _N < 40 mm0,029 W/(m·K)	40 mm ≤ d _N < 60 mm0,028 W/(m·K)	d _N ≥ 60 mm0,027 W/(m·K)	70°C, 90% RH, after 48h.....	d ≤ 4 %		sz ≤ 4 %		g ≤ 1 %
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70°C, 90% RH, after 48h.....	d ≤ 4 %												
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-30°C, after 48h.....	$d \leq 2 \%$
	$sz \leq 2 \%$
	$g \leq 0,5 \%$
	PN-EN 1604:2013
Total relative deformation, 48h, 20 kPa, 80°C	$\leq 2,57 \%$
	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® FLOOR is intended for the thermal insulation of floors, foundations and other floorings in buildings including residential and commercial as well as in agricultural and industrial (by spraying). CROSSIN® FLOOR is a polyurethane system that must be processed using the special foaming units, equipped with a spray head.