

CROSSIN[®] HARD 40

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:35 - 45°C Heating the hoses:.....35 - 45°C Components pressure:70 - 100 Bar (1015 - 1450 psi) Components temperature (in drums):15 - 30°C The recommended ambient temperature:15 - 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:..... ≥ 38 kg/m³ PN-EN 1602:2013-07</p> <p>Fire classification E PN-EN 14315-1</p> <p>Short-term water absorption by partial immersion:..... Wp ≤ 0,10 kg/m² PN-EN 14315-1</p> <p>Thermal conductivity: $\lambda_{mean,i} = 0,020$ W/(m·K) $\lambda_{90,90} = 0,021$ W/(m·K) PN-EN 14315-1</p> <p>Value to aging λ_D for a thickness:</p> <table border="0" style="margin-left: 200px;"> <tr> <td>$d_N < 80$ mm</td> <td>.....0,026 W/(m·K)</td> </tr> <tr> <td>$80 \text{ mm} \leq d_N < 120$ mm</td> <td>.....0,025 W/(m·K)</td> </tr> <tr> <td>$d_N \geq 120$ mm</td> <td>.....0,024 W/(m·K)</td> </tr> </table> <p style="text-align: right;">PN-EN 14315-1</p> <p>Compressive strength 10% relative deformation $\sigma_{10} \geq 250$ kPa PN-EN 14315-1</p> <p>Resistance coefficient of water vapour diffusion..... $\mu \geq 60$ PN-EN 14315-1</p> <p>Temperature stability:</p> <p>70°C, 90% RH, after 48h..... DS(70,90)3</p> <p>-20°C, after 48h..... DS(-20,-)3 PN-EN 1604:2013</p>	$d_N < 80$ mm0,026 W/(m·K)	$80 \text{ mm} \leq d_N < 120$ mm0,025 W/(m·K)	$d_N \geq 120$ mm0,024 W/(m·K)
$d_N < 80$ mm0,026 W/(m·K)						
$80 \text{ mm} \leq d_N < 120$ mm0,025 W/(m·K)						
$d_N \geq 120$ mm0,024 W/(m·K)						

Adhesion of the foam perpendicular to the surface: ≥ 100 kPa
PN-EN 1607:2013

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

APPLICATION

CROSSIN® HARD 40 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® HARD 40 is a polyurethane system that must be processed using the special foaming units, equipped with a spray head.