

TECHNICAL DATA SHEET

<p>SYSTEM:</p> <p>Polyol (component A): Isocyanate (component B): Application:</p>	<p>ULTRAPOL RG 05/55P</p> <p>ULTRAPOL RG 05/55P ULTRAMER B Polyurethane system for manufacturing of thermal insulation under the concrete floors by in-situ spray forming on industrial and residential buildings. The physical blowing agent is a halogenated olefin with very low global warming potential (GWP = 1) and ozone destruction potential equal to zero (ODP = 0).</p>		
<p>COMPONENTS PROPERTIES:</p>	<p>comp. A (polyol) ULTRAPOL RG 05/55P comp. A</p>	<p>comp. B (iso) ULTRAMER B</p>	
<p>viscosity at 20°C density at 20°C colour storage temperature storage time</p>	<p>450 ± 100 1,16 ± 0,02 yellow 5 – 30 3</p>	<p>350 ± 100 1,22 ± 0,02 brown 5 – 30 6</p>	<p>[mPas] [g/cm³] [°C] [months]</p>
<p>REACTIVITY IN LAB CONDITIONS (samples foamed by hand mixing with mechanical stirrer at the speed 2500 ±500 rpm)</p>	<p>Samples weight (ratio A:B by weight) Components' temperatures Mixing time Start time Gel time Tack free time Core density</p>	<p>20 + 22 (100:110) 18 - 22 2 -3 5 ± 1 12 ± 3 14 ± 4 45 ± 2</p>	<p>[g] [°C] [sec] [sec] [sec] [sec] [kg/m³]</p>
<p>SUGGESTED PROCESSING CONDITIONS</p>	<p>Mixing ratio A : B (by volume) Components temperature Machine heaters temperature Hoses temperature Ambient temperature Surface temperature Components pressure Thickness of one layer</p>	<p>100:100 15 - 30 30 - 45 30 - 45 10 – 30 10 – 40 80 – 110 15-25</p>	<p> [°C] [°C] [°C] [°C] [°C] [bar] [mm]</p>
<p>Sprayed surfaces should be dry, free from oil, dust and dirt that can cause deterioration of the adhesion of the foam. If in doubt about the cleanliness of the surface, it is a good thing to perform the trial spray on a limited area the day before, and if the adhesion is poor, wash and dry the surface before the final spraying. Before spraying adjacent areas should be protected to prevent from deposition of foam's dust.</p>			

PROPERTIES OF THE SPRAYED FOAM

Test samples cut from the sprayed insulation.

Foam core density (PN-EN 1602:1999):	$\geq 45 \text{ kg/m}^3$
Reaction to fire classification (PN-EN 13501-1+A1:2010):	E
Declared aged thermal conductivity coefficient (λ_D) for foam with diffusion-open faces, depending on insulation thickness (d_N): (PN-EN 12667:2002)	for $d_N < 80 \text{ mm}$ $\lambda_D = 0,028 \text{ W/mK}$ for $80 \text{ mm} \leq d_N < 120 \text{ mm}$ $\lambda_D = 0,027 \text{ W/mK}$
Compressive strength at 10% deformation, σ_{10} (PN-EN 826:1998)	$\geq 300 \text{ kPa}$
Content of closed cells (PN-ISO 4590:2005)	$\geq 90\%$

The information given in this technical data sheet bases on our laboratory tests and practical knowledge and cannot be use as warranty of purchaser/user final products' parameters. Our data does not release the user from the obligation to verify the information provided and test our product according to his own application, technological conditions and final purposes.

This data sheet is distributed with the corresponding Safety Data Sheet which contains current information about classification, labeling, handling and safety relevant data.