

# EKOPRODUR S0310

**CHEMICAL NAME** System poliuretanowy

**TECHNICAL REQUIREMENTS**

These 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.

Components volumetric ratio POLY : ISO.....100 : 100  
 Components heating temp:..... 50 - 60°C  
 Hoses temperature:..... 50 - 60°C  
 Components pressure: ..... 80 - 110 Bar (1160 - 1595 psi)  
 Component drum temperatures: ..... 30 – 40°C  
 The recommended ambient temperature: .....10 - 35°C  
 Recommended surface temperature should: ..... 15 - 50°C  
 Ambient relative humidity: .....≤ 70%  
 Humidity on the porous surface: ..... to 15%  
 Nonporous surface should be dry: .....(0%)

**GENERAL DATA**

Core density:.....  $\geq 7 \text{ kg/m}^3$   
 PN-EN 1602:2013-07  
 Fire classification ..... F  
 PN-EN 13501-1+A1:2010  
 Short-term water absorption by partial immersion:.....  $W_p \leq 0,85 \text{ kg/m}^2$   
 PN-EN 1609:2013  
 Thermal conductivity:.....  $\lambda_{\text{mean,i}} = 0,037 \text{ W/(m}\cdot\text{K)}$   
 $\lambda_{90,90} = 0,038 \text{ W/(m}\cdot\text{K)}$   
 Declared value: .....  $\lambda_D = 0,038 \text{ W/(m}\cdot\text{K)}$   
 Heat transfer coefficient after exposure to high humidity  
 (50°C, 90% relative humidity): .....  $\lambda_{50C,90\%rh} = 0,038 \text{ W/(m}\cdot\text{K)}$   
 PN-EN 12667:2002  
 Compressive strength at 10% relative deformation .....  $\sigma_{10} \geq 5 \text{ kPa}$   
 PN-EN 826:2013-07  
 Water vapor resistance coefficient: .....  $\mu \geq 3$   
 PN-EN 12086:2013-07  
 Sound absorption coefficient: .....  $\alpha_W = 0,50$   
 PN-EN ISO 11654:1999  
 Sound absorption class: ..... D  
 PN-EN ISO 11654:1999  
 Dimensional stability:  
 70°C, 90% RH, after 48h .....  $d \leq 4 \%$   
 $sz \leq 4 \%$   
 $g \leq 1 \%$   
 -30°C, after 48h.....  $d \leq 2 \%$   
 $sz \leq 2 \%$

$g \leq 0,5 \%$

Adhesion of the foam perpendicularly to the surface: ..... > 34 kPa  
PN-EN 1607:2013

Closed cell content .....  $\leq 3 \%$   
PN-EN ISO 4590:2005

Susceptibility to mold growth  
PN-EN ISO 846:2002

## APPLICATION

EKOPRODUR S0310 is designed to perform internal thermal and acoustic insulation of roofs, attics, roofing, ceilings, walls in timber structures, brick, steel and skeletal systems of residential, industrial as well as public buildings, hangars and media premises by spraying.

The density of the sprayed foam achieves 8 – 10 kg/m<sup>3</sup> depends on the thickness of the layer and quality of the realization.

EKOPRODUR S0310 is processed with the help of specialized high pressure spraying aggregates, equipped with a spray head.