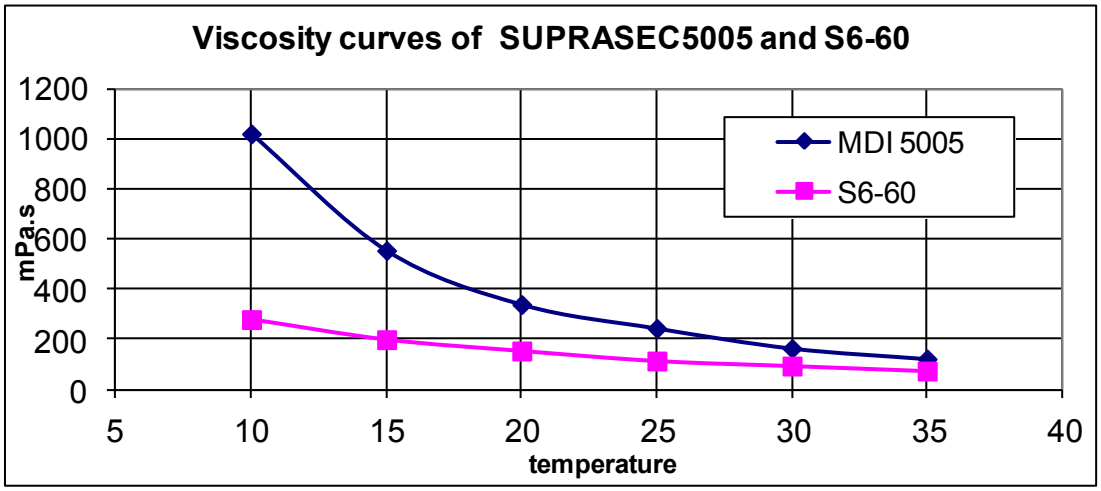
SINPOL S2-60

A CFC-Free PU Foam For Sprayed External Applications

SINPOL S2-60 is PU hard foam system for sprayed external insulation of the roofs and walls. It contains no CFC blowing agent and is therefore suitable for insulation and waterproofing applications where environmental considerations are important. During application foam rises to a smooth surface what makes easier application of the UV protectional coating. Technological parameters of the system, especially the starting time, will be set up along the customer requirements.

SINPOL S2-60 is suitable for both Glass-Craft and Gusmer high- pressure dispense equipment. It could be used another high- pressure equipment of course. For practical use, we recommend these instrument set up:
Spray gun temperature: 120 F (40°C)
Hose temperature: 110 F (35°C)
These may be varied slightly according to machine, gun type and ambient conditions. We also call your attention to the fact, that the resin is in the same temperature lower viscous than isocyanate and that is why it is not necessary to preheat it more than MDI. In the next picture is the viscosity curves correlation between the S2-60 system and MDI.



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Typical Properties of SINPOL S2-60

Appearance	**Resin** **Isocyanate**	**Clear amber viscous liquid.** **Dark brown viscous liquid.**
Specific Gravity (20%)	**Resin** **Isocyanate**	**1.10 g/cm^3** **1.24 g/cm^3**
Viscosity (25^{o}C)	**Resin** **Isocyanate**	**140 cP/ mPa.s** **240 cP/ mPa.s**
Volume Ratio	**100 Resin**	**100 Isocyanate**
Reaction Times	**50g laboratory mix at 20^{o}C** **Cream time** **Gel time** **Tack-free time**	 **2 Secs** **20 Secs** **40 Secs**
Free-Rise	**Cup density**	**50 kg/m^3**
In-Place Density		**60 kg/m^3**
Compressive Strength	**Parallel to rise**	**490 kPa**
Dimensional Stability under pressure	**20 kPa at 80°C for 48 hours (max. 5 %)**	**-4,01 %**
Dimensional stability under temperature and R.H.	**70°C and 90% humidity for 24 hours (max. 4,0 %)**	**3,26 %**
Thermal Conductivity	**W/mK (initial)**	**0.0219**
Closed-Cell Content		**>95 %**
Vater Absorption	**kg/ m2**	**0,128**
Foam Flammability Rating	**DIN4102**	**B2**

Please note:
To ensure good adhesion and optimum foam properties, substrate temperatures should be at least 15°C. The edge conditions are:
Surface temperature: min. 10 °C
Air temperature: 10 °C
Humidity: 70 %.
Apply on the dry and clean surface only.
Flammability ratings do not reflect the level of hazard, which might exist in practice.
Whilst every effort is made to ensure its accuracy, the data held on this sheet is meant for informational purposes only. The typical properties listed are the result of extensive laboratory tests, but since the supplier has no control over the end use of each material, we cannot guarantee these results are obtained in practice. Users should conduct their own tests to determine the suitability of each material to its intended application.See Safety Data sheet for safe-handling information

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