

PRODUCT INFORMATION SHEET

DALTOTHERM® TSW38-00 Spray System CE

A closed cell, spray applied Polyurethane foam for use in a variety of applications in commercial, industrial, residential and agricultural buildings. The continuous application of DALTOTHERM® TSW38-00 spray system offers superior thermal insulation with economical yield and meets the requirements of BS476part7, Class I - Surface Spread of Flame.

Features and Benefits

- Excellent yield
- Low odor spray foam material
- Excellent processing, fast reaction
- Excellent adhesion
- HFC 245fa blowing agent (zero ODP)
- CE approved system

Applications

- Renovation walls and ceilings
- New build walls, ceilings and roof spaces
- Residential buildings
- Commercial buildings
- Agricultural buildings

Foam Properties

Properties	Values	Method						
Density (core)	35 - 39 kg/m ³	EN ISO 845						
Reaction profile	CT: 5s / GT: 10s / Tft: 13s	EN 14315-1						
Closed cell content	> 90%	ISO 4590						
Thermal conductivity at 10 °C (initial)	0.023 W/m.K	EN 12667						
Declared aged thermal conductivity At 10 °C (λ_b)	<table border="1" style="display: inline-table; vertical-align: top;"> <tr> <td>≥ 120 mm</td> <td>0.029 W/m.K</td> </tr> <tr> <td>80 to 120 mm</td> <td>0.030 W/m.K</td> </tr> <tr> <td>≤ 80 mm</td> <td>0.031 W/m.K</td> </tr> </table>	≥ 120 mm	0.029 W/m.K	80 to 120 mm	0.030 W/m.K	≤ 80 mm	0.031 W/m.K	EN 14315-1
≥ 120 mm	0.029 W/m.K							
80 to 120 mm	0.030 W/m.K							
≤ 80 mm	0.031 W/m.K							
Dimensional stability (-20 °C)	≤ 1.0%	EN 1604						
Dimensional stability (75 °C / 95% R.H.)	≤ 9.0%	EN 1604						
Compressive strength (10%)	230 kPa	EN 844						
Fire properties	Class I E Class G3	BS476part7 EN 11925-2 GOST 30244-94 (Ru)						

DALTOTHERM[®] TSW38-00 Spray System CE
**PRODUCT
 INFORMATION SHEET**
Packaging and storage

	A Component (Polyol)	B Component (Diiso)
Metal drum	225 kg	250 kg
IBC	1125 kg	1250 kg
Storage Temperature	5 - 30 °C	5 - 30 °C
Shelf Life	90 days	180 days

EHS

This product contains diisocyanates which can be harmful if handled in the incorrect way. The material should only be applied by trained installers. Please refer to the SDS for detailed hazard information. Please also refer to the safe use guidelines sheet and the Huntsman training package.

Processing

Machine Parameters:	Substrate:	Application:
<ul style="list-style-type: none"> Mixing ratio (vol.): 1:1 	<ul style="list-style-type: none"> Dry and clean 	<ul style="list-style-type: none"> Thickness layers: max. 40mm
<ul style="list-style-type: none"> Temp. drum: 15 - 20 °C 	<ul style="list-style-type: none"> Substrate temperature >10 °C 	<ul style="list-style-type: none"> >12 cm spray foam: 12 hrs waiting time between 2 layers
<ul style="list-style-type: none"> Temp. machine heaters: 40 - 60 °C 	<ul style="list-style-type: none"> Check before substrate adhesion 	<ul style="list-style-type: none"> See PDS
<ul style="list-style-type: none"> Temp. hose: 40 - 60 °C 	<p>to ensure:</p> <p>→ <i>good adhesion</i></p> <p>→ <i>good foam properties</i></p>	<ul style="list-style-type: none"> See Safe Use Guidelines
<ul style="list-style-type: none"> Working pressure: 80 - 100 bar 		<ul style="list-style-type: none"> See Huntsman training package for detailed EHS-related guidelines on ventilation, personal safety, fire safety, re-occupancy & re-entry,
<p>always spray :</p> <p>→ <i>at pressure above 65 bar</i></p> <p>→ <i>with difference in pressure lower than 15 bar</i></p>		

Remark

Due to the existing fire risk of polyurethane in some applications, for interior insulation, the foam surface must always be covered with a fire protection. Exterior applications must always be provided with a coating to protect it against all different weather elements.

Huntsman Polyurethanes warrants only that its products meet the specifications agreed with the buyer. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NO GUARANTY, WARRANTY OR REPRESENTATION IS MADE, INTENDED OR IMPLIED AS TO THE CORRECTNESS OR SUFFICIENCY OF ANY INFORMATION OR RECOMMENDATION OR AS TO THE MERCHANTABILITY, SUITABILITY OR FITNESS OF ANY PRODUCTS FOR ANY PARTICULAR USE OR PURPOSE. In all cases, it is the responsibility of the user to determine the applicability of such information and recommendations and the suitability of any product for its own particular purpose. NOTHING IN THIS PUBLICATION IS TO BE CONSTRUED AS RECOMMENDING THE INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT AND NO LIABILITY ARISING FROM ANY SUCH INFRINGEMENT IS ASSUMED. NOTHING IN THIS PUBLICATION IS TO BE VIEWED AS A LICENCE UNDER ANY INTELLECTUAL PROPERTY RIGHT. Products may be toxic and require special precautions in handling. The user should obtain Safety Data Sheets from Huntsman Polyurethanes containing detailed information on toxicity, together with proper shipping, handling and storage procedures, and should comply with all applicable safety and environmental standards. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent on the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users. Huntsman Polyurethanes is an international business unit of Huntsman International LLC. Huntsman Polyurethanes trades through Huntsman affiliated companies in different countries such as Huntsman International LLC in the USA and Huntsman Holland BV in Western Europe. Except where explicitly agreed otherwise, the sale of products referred to in this publication is subject to the general terms and conditions of sale of Huntsman International LLC or of its affiliated companies. DALTOTHERM[®] is a registered trademark of Huntsman LLC or an affiliate thereof, in one or more countries, but not all countries. Copyright© 2015 Huntsman LLC or an affiliate thereof. All rights reserved.