FLORASEAL 50

CCMC EVALUATION 14128-L
EPD Environmental Product Declaration

FLORASEAL 50 is a two-component, open cell, semi-rigid spray foam system. This product is formulated with a blowing agent consisting of 100% rainwater collected directly on-site at the factory. FLORASEAL 50 is used for thermal insulation and sound attenuation, and it has very good adhesion to common substrates.

FLORASEAL 50 has been tested by an independent laboratory and accredited by the CCMC. It surpasses the requirements of the CAN/ULC-S712.1: 2017 "Standard Specification for Thermal Insulation - Light Density, Open Cell Spray Applied Semi-Rigid Polyurethane Foam - Material Specification". FLORASEAL 50 must be applied by licensed installers in accordance with the CAN/ULC S712.2 application standard.

TYPICAL PHYSICAL PROPERTIES (CCMC # 14128-L)			
Physical Properties	**Method**	**Value**	
Density	ASTM D1622	0.55 lb/ft^3	8.8 kg/m^3
Thermal Resistance (@ 50 mm thick.)	ASTM C518	R 7.4 (3.7/in)	1.28 RSI
Dimensional Stability	ASTM D2126 (28days, -20ºC, ambient H.R) (28days, +80ºC, ambient H.R) (28days, +70ºC, 97±3% H.R.)	+0.60 % -2.20 % +0.40%	
Air Permeance @ 75Pa pressure difference at 100 mm thickness	ASTM E2178	<0.01 L/ (m2. s)	
Water Vapor Permeance @ 50mm	ASTM E96 A	1296 Ng/Pa.s.m2	
Water Absorption, by volume	ASTM D2842 A	48 %	
Open Cell Content	ASTM D6226	98.5 %	
Fungi Resistance	ASTM C1338	No Growth	
Fire resistance properties **Flame Spread characteristics** **Smoke developed classification**	CAN/ULC S102 CAN/ULC S127	30 Flame Spread Index 230 Smoke Develop Index 353 Flame spread Index	
Volatile Organic Compounds - Time to occupancy	CAN/ULC S774	1 day	

PHYSICAL PROPERTIES (additional testing)			
Physical Properties	**Method**	**Value**	
Density	ASTM D1622	0.52 lb/ft^3	8.3 kg/m^3
Thermal Resistance (@ 50 mm thick.)	ASTM C518	R 7.8 (3.9/in)	1.35 RSI

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REACTIVITY PROFILE	
Cream Time (seconds)	1 - 2
Gel Time (seconds)	3 - 4
Rise Time (seconds)	6 - 7

Laboratory results based on machine mixing (Graco E-30) at 125ºF/1100psi. Properties shown below are to be used as a guide only and not intended for specification properties.

RECOMENDED PROCESSING CONDITIONS		
Primary Heater Temperature	110 – 130ºF	43 – 54ºC
Hose Heat Temperature	110 – 130ºF	43 – 54ºC
Processing Pressure	1 000 – 1 500 psi	6 894 – 10 342 kPa
Substrate Temperature	>32ºF	>0 ºC
Ambient Temperature	>32ºF	>0 ºC
Moisture Content of Substrate	< 19 %	

Processing conditions can vary depending on temperature, humidity, substrate, equipment and other factors. It is the applicator's responsibility to process and apply Floraseal 50 within specification.

COMPONENT PROPERTIES		
Proprerties	**Isocyanate A-2732**	**Resin Floraseal 50**
Appearence	Brown Liquid	Light Yellow Liquid
Viscosity @ 25ºC	150 – 250 cps	130 – 170 cps
Specific Gravity @ 25ºC	1.24	1.07 – 1.12
Mixing Ratio (volume)	100	100

The product works as both a thermal insulator and acoustical material. Floraseal significantly reduces the transmission of ambient sound and vibration-related noise.

Before handling these chemicals, please consult the Safety Data Sheet for the two components, that are available from Genyk.

PACKAGING AND STORAGE				
Additionnal information	**Isocyanate A-2732**		**Resin Floraseal 50**	
Packaging	Drum: 227 kg / Tote: 1,250 kg		Drum: 215 kg / Totes: 1,075 kg	
Storage temperature	59ºF - 95ºF	15°C – 35°C	59ºF - 77ºF	15°C – 25°C
Shelf Life	12 months		6 months	

General information: All materials should be stored in their original containers and away from heat and moisture, especially after the seals have been broken and the containers have been opened. Storage below recommended temperatures may result in compound stratification of the B and/or crystalline formation in the A component and will increase the viscosity of the components making them difficult to pump. Temperatures above the maximum storage temperatures may decrease the shelf life. Both components are adversely affected by water and humidity.

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