TECHNICAL DATA SHEET

GENYK FLORASEAL-50 is a two-component, open cell, semi-rigid spray foam system. This product is a fully water blown foam system with a nominal 8.8 kg/m^3 (0.55 lb/ft^3) density. The product has very good adhesion to common substrates and to itself. FLORASEAL 50 is used for thermal insulation and sound attenuation applications.

GENYK FLORASEAL 50 has been tested by an independent laboratory and accredited by the CCMC. It surpasses the CAN/ULC-S712.1 : 2017 *"Standard Specification for Thermal Insulation – Light Density, Open Cell Spray Applied Semi-Rigid Polyurethane Foam – Material Specification"* requirements.

FLORASEAL 50 must be applied by UFC licensed installers under the application standard CAN/ULC s712.2

CCMC # : 14128-L

TYPICAL PHYSICAL PROPERTIES (CCMC # 14128-L)		
Physical Property	**Method**	**Value**
Density	ASTM D 1622	0.55 lb/pi^3 / 8.8 kg/m^3
Thermal Resistance (at 50 mm thickness)	ASTM C 518	1.28 m^2. K/W (R 3.7/po)
Dimensional Stability	ASTM D2126 (28days, -20ºC, ambient H.R) (28days, +80ºC, ambient H.R) (28days, +70ºC, 97±3% RH)	 +0.60 % -2.20 % +0.40%
Air Permeance @ 75Pa pressure difference at 100 mm thickness	ASTM E 2178	<0.01 L/ (m^2. s)
Water Vapor Permeance @ 50mm	ASTM E96 A	1296 Ng/Pa.s.m^2
Water Absorption, by volume	ASTM D 2842 A	48 %
Open Cell Content	ASTM D 6226	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

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PHYSICAL PROPERTIES (Additional testing)		
Physical Property	**Method**	**Value**
Density	ASTM D 1622	0.52 lb/pi^3 / 8.3 kg/m^3
Thermal Resistance (at 50 mm thickness)	ASTM C 518	1.35 m^2.K/W (R 3.9/po)

COMPONENT PROPERTIES		
Proprerties	**ISOCYANATE A-2732**	**RESIN FLORASEAL 50**
Appearence	Brown Liquid	Light Yellow Liquid
Viscosity @ 25ºC	150 – 250 cps	130 - 170cps
Spécific Gravity @ 25ºC	1.24	1.08 – 1.10
Shelf Life	12 months	6 months
Storage Temperature	10 – 38ºC / 50 -100ºF	10 – 25ºC / 50 -77ºF
Mixing Ratio (volume)	100	100

REACTIVITY PROFILE (Graco E30 – AF Gun - AR5252 - A&B 125ºF / 1100psi)	
Cream Time (seconds)	1 - 2
Gel Time (seconds)	3 - 4
Rise Time (seconds)	6 - 7

RECOMENDED PROCESSING CONDITIONS	
Primary Heater Temperature	110 – 130ºF / 43 – 54ºC
Hose Heat Temperature	110 – 130ºF / 43 – 54ºC
Processing Pressure	1000 – 1500 psi
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.

HEALTH AND PERSONNAL PROTECTION
Before handling these chemicals, please consult the Material Safety Data Sheets for the two components. Material Safety Data sheets on product components are available from Genyk Inc.

Genyk Inc believes that the information in this technical data sheet is an accurate description of the typical uses of the product. Genyk Inc, however, disclaims any liability for incidental or consequential damages, which may result from the use of the product that are beyond its control. Therefore, it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficiency and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual property right.

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GENYK FLORASEAL – LIGHT DENSITY SPRAY FOAM

GENYK FLORASEAL/A-2732 is a two component, open cell, semi-rigid spray foam system. This product is a fully water blown foam system with a nominal 8kg/m^3 (0.5 lb/ft^3) density. The product has very good adhesion to common substrates and to itself. Uses include thermal insulation, air barrier applications and sound attenuation. The product is designed to be installed by CUFCA licensed contractors.

TYPICAL PHYSICAL PROPERTIES

PHYSICAL PROPERTY	TEST METHOD	VALUE
Core Density	ASTM D1622	7.9 kg/m^3 (.49 lb/ft^3)
Compressive Strength	ASTM D1621	0.9 psi
Dimensional Stability	ASTM D2126	-29^{0}C, 28 days, -0.29 % 80^{0}C, 28 days, -3.21% 70^{0}C, 28 days, -4.35%
Thermal Resistance	ASTM C518	R3.8 per inch (RSI 1.33 @ 50mm)
Water Vapour Permeance	ASTM E96	475 ng/Pa*s*m^2
Air Permeance (assembly)	ASTM E283	0.001 L/s*m2 @ 100mm
Air Permeance (material)	ASTM E2178	0.0018 L/s*m2 @ 100mm
Flame Spread	CAN/ULC S102	150
Smoke Development	CAN/ULC S102	275
Spontaneous Ignition	ASTM D1929	580^{0}C (1076^{0}F)
Sound Transmission Classification	ASTM E413	Wall Assembly - STC-56 Floor Assembly - STC-53
Noise Reduction Coefficient	ASTM C423	NRC - 0.78
VOC Emission	CAN/ULC S774	Pass
Fungi Resistance	ASTM C1338	No growth

Genyk Inc. believes that the information in this technical data sheet is an accurate description of the typical uses of the product.
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PRODUCT SPECIFICATIONS

PROPERTY	ISOCYANATE A-2732	RESIN FLORASEAL
Appearance	Brown liquid	Light Amber liquid
Viscosity at 25ºC	150-250 cps	170 - 320 cps
Specific gravity at 25ºC	1.22 – 1.25	1.09 – 1.12
Shelf life	12 months	12 months

REACTIVITY PROFILE

Mix ratio by weight (Isocyanate/Resin)	100/100
Cream Time (seconds)	1-2
Gel Time (seconds)	4 - 5
Tack Free Time (seconds)	7 - 8
Free Rise Density (lb/ft^3)	0.50

Properties shown are to be used as a guide only and not intended for specification properties.
Note: Spray foam results based on a mix at 130ºF/1200 psi.

RECOMMENDED PROCESSING CONDITIONS

Component A Setpoint Temperature	130^0F
Component B Setpoint Temperature	130^0F
Heated Hose Setpoint Temperature	130^0F
Processing Setpoint Pressure	1200 psi
Moisture Content of Substrate*	< 19%

Note: Foam application temperatures and pressures can vary depending on temperature, humidity, nature of substrate and equipment used. This is the responsibility of the applicator to observe the characteristics of the sprayed foam and adjust the processing parameters to maintain proper cell structure, adhesion and foam quality.

HEALTH AND PERSONAL PROTECTION

Before handling these chemicals, please consult the FLORASEAL and A-2732 Material Safety Data Sheets for the two components. 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. Shelf life is 12months for the resin and 12 months for the isocyanate when stored indoors at a temperature between 60ºF (15ºC) and 77ºF (25ºC) for the resin and 60ºF (15ºC) and 100ºF (38ºC) for the isocyanate. Storage below 60ºF (15ºC) may result in compound stratification of the B and/or crystalline formation in the A component. Temperatures above the maximum storage temperatures may decrease the shelf life. Containers should be opened carefully to allow any pressure build-up to be vented safely. Genyk A-2732 is adversely affected by water and humidity.

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