



POLARFOAM PF-7300 CCMC

SPRAY APPLIED POLYURETHANE FOAM

Polarfoam PF-7300 is a two component closed cell spray-applied rigid polyurethane foam system, peach in colour, formulated to exceed the requirements of CAN/ULC S705.1-98 standard. PF-7300 is applied exclusively by licensed contractors under the guidelines of CAN/ULC S705.2 standard. PF-7300 is also an excellent air barrier which has been tested by an independent laboratory and is classified as TYPE III (best rating obtainable).

PF-7300 has been evaluated by CCMC (Report #12380-R & #12893-R) for residential use and complies with the intent of the National Building Codes of Canada Article 9.25.3.1. This product is also approved by Ontario Ministry of Housing #94-0909.

PHYSICAL PROPERTIES

Method	Description	Value
ASTM D-1622	Density	32-35 Kg/m ³ (2.0-2.2 lb/ft ³)
ASTM C-518	Thermal Resistance 90 days @ 23°C	1.22 m ² .°C/W (6.9 ft ² .h.°F/BTU.in)
ASTM D-2856	Open Cell Content (%)	6.02%
ASTM D-1621	Compressive Strength	174 kPa (25 psi)
ASTM D-1623	Tensile Strength	212 kPa (31 psi)
ASTM D-2126	Dimension Stability (% Volume Change @ 28 Days) -20°C, ambient R.H. 100°C 70°C	0.47 5.89 2.58
ASTM D-2842	Water Absorption (% volume)	0.62
ASTM E-96	Water Vapour Permeance	86.6 ng/Pa.s.m ²
CCMC 07273	Air Barrier Material Test	0.00014 L/sm ² @ 75 pa
ASTM E-283	Air Leakage (75 Pa = 40 Km./h)	0.000L/s.m ²
ASTM E-330	Gust Wind (3000 Pa = 255 Km/h)	No delamination
CAN/ULC	Flame spread classification (2 inches thick)	335
S-102 M&S-127	Smoke developed (2 inches thick)	315
MVSS 302	Extinction	B (Self-extinguishing)

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LIQUID COMPONENTS PROPERTIES

PROPERTY	ISOCYANATE	RESIN
Colour	Brown	Peach
Viscosity @ 25°C	150-350 cps	100-300 cps
Specific gravity	1.20-1.24	1.10-1.14
Mixing ratio (volume)	100	100

FOAM PROCESSING PARAMETERS

Type of machine:	Gusmer HII, D gun, #62 mix chamber
Primary heater (Iso & Res.)	49°C (120°F)
Hose temperature:	38°C (100°F)
Ambient temperature:	17°C (63°F)
Thickness of passes:	25mm (1 inch)
Number of passes:	2
Substrate:	Wood

REACTIVITY PROFILE

Cream time	Gel time	Tack free time	End of rise
0-1 sec.	1-2 sec.	4-5 sec.	5-6 sec.

RECOMMENDED PROCESSING CONDITIONS

Primary heater (Iso&Res.):	49°C (120°F)
Hose temperature:	38°C (100°F)
Pressure of mix (minimum):	5516 kPa (800 psi)
Substrate & Ambient temperature:	>-10°C (14°F)
Curing temperature:	>-10°C (14°F)
Maximum thickness per pass:	2 in.
Waiting time between 2 in. thick:	30 minutes

General Information:

It is recommended that the foam be covered with an approved thermal barrier in accordance to the local and national building codes when used in building and a protective coating when used outside. This product should not be used when the continuous service temperature of the substrate is outside the range of -60°C to 80°C.

The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent inferred. All patent rights are reserved. The foam product is combustible and must be covered by an approved thermal barrier. The exclusive remedy for all proven claims is replacement of our materials.

02/20/01