

CCMC 14444-L

CCMC Standard compliance evaluation

CCMC number:	14444-L
Status:	Active
Issue date:	2021-11-19
Modified date:	2021-11-22
Evaluation holder:	<p>Elastochem Specialty Chemicals Inc. 37 Easton Road Brantford ON N3P 1J4 Canada Website: www.elastochem-ca.com Telephone: 519-754-1678 Email: info@elastochem-ca.com</p>
Product name:	Insulthane® 450 No-Mix
Evaluation requirements:	<u>CAN/ULC-S712.1:2017</u>

In most jurisdictions this document is sufficient evidence for approval by Canadian authorities.

[Learn more about CCMC recognition](#)

Product information

Product name

Insulthane
450 No-Mix

Product description

Ozone-depleting Substances and Halocarbon Alternatives Regulations (ODSHAR)

The evaluation holder attests that this/these product(s) contains a foaming agent that is compliant with the Ozone-depleting Substances and Halocarbon Alternatives Regulations, which is administrated by Environment and Climate Change Canada (ECCC)

The product is an open-cell, spray-applied, semi-rigid polyurethane foam of light density. The foam system consists of two components that must be labelled as follows, along with "CCMC 14444-L":

- Isocyanate (Component A): "Insulthane[®] 450 No Mix"; and
- Resin (Component B): "Insulthane[®] 450 No Mix."

The two components are mixed on-site by a Urethane Foam Consultants, Inc.-qualified installers with fixed-ratio positive displacement equipment. The colour of the installed final cured product is yellow.

Site-manufactured product

This is a site-manufactured product; it is finished on-site following the spray-application of raw materials produced at the manufacturing plant(s) below.

Manufacturing plants

This evaluation is limited to products produced at the following plant(s):

- Brantford, Ontario, Canada

Technical information

This evaluation is based on demonstrated conformance with the following criteria:

Criteria number	Criteria name
CAN/ULC-S712.1:2017	Standard for Thermal Insulation – Light Density, Open Cell Spray Applied Semi-Rigid Polyurethane Foam – Material Specification

Design values

The product's minimum site density, design thermal resistance value (RSI), water vapour permeance (WVP) and time-to-occupancy values are provided below.

Minimum site density, design RSI and time-to-occupancy specifications for the product

Property	Minimum site density (kg/m ³) [lb./ft ³] ⁽¹⁾	50 mm design RSI (m ² ·°C/W)	50 mm WVP (ng/(Pa·s·m ²)) ⁽²⁾	Time-to-occupancy (hours) ⁽³⁾
Insulthane® 450 No Mix	8.5 [0.53]	1.33	535	25

Notes:

- ¹ Based on the qualification testing to CAN/ULC-S712.1, the specified minimum site density must comply with CAN/ULC-S712.1 as measured on-site in accordance with CAN/ULC-S712.2-17, "Thermal Insulation – Light Density, Open Cell Spray Applied Semi-Rigid Polyurethane Foam – Installation."
- ² The WVP is determined from a core sample with the top and bottom skins removed. Due to the effect of the skins, the WVP at this thickness may be lower in the site-installed product.
- ³ For retrofit construction, the time to occupancy is 25 hours when the segregated retrofit area is ventilated as required by CAN/ULC-S712.2 during installation of the product. See Note 2 of the table in the Technical Criteria for further details.

Qualified installers

This is a site-manufactured product whereby Elastochem Specialty Chemicals Inc. requires that only specific, qualified installers be authorized to install its proprietary spray-polyurethane insulation in buildings. In accordance with the Elastochem Specialty Chemicals Inc. site quality assurance program (SQAP), the certification organization Urethane Foam Consultants, Inc. (UFC) has been commissioned to license the specified installers and issue the requisite UFC identification card to them. All specified installers must have a UFC identification card.

Third-party site auditing of qualified installers

As part of its SQAP, Elastochem Specialty Chemicals Inc. also stipulates that site-audit inspections be conducted by site inspectors licensed by UFC. Upon completion of the site audit, UFC will report the product's conformity results and any corrective action required, if necessary, to Elastochem Specialty Chemicals Inc. Building officials who would like site-audit inspections conducted on specific building sites can contact UFC at:

Urethane Foam Consultants, Inc. (UFC)

160 Main St. South, Suite 547

Brampton, ON L6W 4C1

Tel.: 905-702-2555

Administrative information

Disclaimer

This evaluation is issued by the Canadian Construction Materials Centre (CCMC), part of the Construction Research Centre at the National Research Council of Canada (NRC). The evaluation must be read in the context of the entire [CCMC Registry of Product Assessments](#) and the legislated applicable building code in effect.

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It is the responsibility of the local AHJs, design professionals, and specifiers to confirm that the evaluation is current and has not been withdrawn or superseded by a later issue. Please refer to [the website](#) or contact:

Canadian Construction Materials Centre

Construction Research Centre
National Research Council of Canada
1200 Montreal Road
Ottawa, Ontario, K1A 0R6
Telephone: 613-993-6189
Fax: 613-952-0268

The NRC has evaluated the material, product, system or service described herein only for those characteristics stated herein. The information and opinions in this evaluation are directed to those who have the appropriate degree of experience to use and apply its contents (i.e., AHJs, design professionals and specifiers). This evaluation is only valid when the product is installed in strict compliance with the stated conditions and limitations of evaluation and the applicable local building code. In circumstances where no applicable local building permit is issued and that no confirmation of compliance 'for use in the intended field application' is undertaken, this evaluation is null and void in all respects. This evaluation is provided without representation, warranty, or guarantee of any kind, expressed, or implied, and the NRC provides no endorsement for any evaluated material, product, system or service described herein. The NRC accepts no responsibility whatsoever arising in any way from any and all use and reliance on the information contained in this evaluation with respect to its compliance to the referenced code(s) and standard(s). The NRC is not undertaking to render professional or other services on behalf of any person or entity nor to perform any duty owed by any person or entity to another person or entity.

Language

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CCMC recognition

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CCMC assessments are recognized by construction authorities across Canada:

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(Alliance of Canadian Building Official Associations (ACBOA))

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(First Nations National Building Officers Association (FNNBOA))

Canadian Home Builders' Association (CHBA)



(Canadian Home Builders' Association (CHBA))

Alberta Building Officials Association (ABOA)



(Alberta Building Officials Associations (ABOA))

Saskatchewan Building Officials Association (SBOA)



(Saskatchewan Building Officials Association (SBOA))

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(Manitoba Building Officials Association (MBOA))

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For more information, contact the CCMC by phone at (613) 993-6189 or by email at ccmc@nrc-cnrc.gc.ca

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