

**SPRAY FOAM INSULATION COLOUR: LIGHT GREEN****PRODUCT USAGE**

Enverge® 1860™ CDN spray-applied polyurethane foam is a CAN/ULC S705.1-15 compliant spray-applied, two component, closed cell insulation system. The product is formed by the reaction of proprietary resin blend and polymeric methylene diphenyl diisocyanate. The resin blend is comprised of polyols, additives, fire retardants and low global warming potential blowing agents. Enverge 1860 CDN is light green in colour. The spray applied nature of Enverge 1860 CDN spray foam allows the material to seal cracks and voids, expanding to form a monolithic structure with high thermal performance (resistance to heat flow). Enverge 1860 CDN spray foam can form various control layers for buildings and structures: insulation, air barrier, moisture retarder and weather barrier. Enverge 1860 CDN is manufactured under a quality control program administered under the auspices of ISO 17025. **1860 CDN must be installed in accordance with CAN/ULC-S705.2.**

This Technical Data Sheet is provided for general reference purposes only. Installers must be certified by Urethane Foam Consultants (UFC) for the proper application of Enverge 1860 CDN in accordance with the requirements of the CAN/ULC-S705.2 standard and the Site Quality Assurance Program (SQAP). UFC is the designated provider of the Site Quality Assurance Program (SQAP) for Enverge 1860 CDN.

SAFETY AND HANDLING INFORMATION

It is critical to read and become familiar with the Safety Data Sheet prior to working with Enverge 1860 CDN spray foam liquid components. During application respiratory protection is required for the applicator and bystanders or helpers. For more information consult the [Safety Data Sheets](#) at www.EnvergeSprayFoam.com or www.spraypolyurethane.org.

APPROVED APPLICATIONS

Interior Walls and Attics, Ducts, Exterior Walls, Foundations, Concrete Slab, Basements and Crawl Spaces, and Cold Storage. Find the full 1860 CDN [Application Guide](#) at www.EnvergeSprayFoam.com.

ENVIRONMENTAL CONSIDERATIONS

Enverge 1860 CDN is available in two grades for various ambient conditions:

Regular

10°C - 45°C

Winter

0°C - 25°C

Wind speeds in excess of 15 kmh may cause loss of exotherm or cause overspray onto adjacent objects or structures. It may be necessary to use wind screens. Substrate conditions will effect product performance.



The descriptions, data, designs, and information contained herein are presented in good faith and believed to be accurate. This information is provided for guidance ONLY. Many factors will affect the processing or application of Enverge products. It is necessary that you make tests to determine ultimate suitability for Enverge products for your particular application. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described, data, or designs presented. In no case shall the descriptions, information, data, or designs provided be considered a part of our terms and conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. You expressly agree to release Holcim Solutions and Products US, LLC from liability in tort or contract based on the technical information provided. All such information is accepted at your own risk.

Physical Properties - CAN/ULC-S705.1			
Long Term Thermal Resistance (LTTR)		R-Value	RSI
CAN/ULC S770 LTTR	100 mm	23	4.02
	75 mm	17	3.09
	50 mm	11	1.87
	25 mm	7.2	1.23
Test Method	Attribute	SI	US-Customary
ASTM D-1622	Apparent Core Density	35kg•m ⁻³	2.17lbs ft ⁻³
ASTM D-1621	Compressive Strength	223 kPa	32 lbs•in ⁻²
ASTM D-1623	Tensile Strength	221 kPa	32 lbs•in ⁻²
ASTM E-2178	Air Permeance	0.0031 L•s ⁻¹ •m ² @ 25.4mm	
ASTM D-2126	Dimensional Stability, -20°C	0.3% Change	
ASTM D-2126	Dimensional Stability, 80°C	0.6% Change	
ASTM D-2126	Dimensional Stability, 70°C & 97% RH	9.2% Change	
ASTM D-6226	Open Cell Content	4.17%	
ASTM D-2842	Water Absorption	0.50%	
ASTM E-96	Water Vapor Permeance, 50mm	38ng/Pa-s-m ²	66 perms
ASTM C-1338	Fungi Resistance	No growth	
CAN/ULC S-102	Surface Burning Characteristics	Flame Spread = 246	
CAN/ULC S-774	Time to Occupancy	25 Hours	

Reactivity Profile			
Cream Time	Gel Time	Tack Free Time	End of Rise
0 - 1 seconds	3 seconds	5 - 6 seconds	5 - 6 seconds

Liquid Component Properties		
Property	Isocyanate	Resin
Viscosity @ (25°C)	200 cps	700 cps
Density	1.24 kg•m ⁻³	1.24 kg•m ⁻³

Recycled & Renewable Content	
Pre Consumer	9.2%
Post Industrial	0%
Rapidly Renewable	5.2% by ASTM D-6886

These values are typical. Values will vary and should not be considered part of the product specifications. It is imperative that the trained applicator read and understand this technical datasheet and SDS to process the material correctly and understand environmental and equipment limitations.