

HSE profile and Green Building contribution

Hilti Fireprotection Cable Coating Exterior CP 679-A

LEED and **BREEAM** are third-party certification programs which provide a benchmark for the design, construction and operation of high-performance green buildings. Both promote a whole-building approach to sustainability and evaluate it by scoring points based on a set of criteria. Individual products cannot be certified under LEED or BREEAM but they can contribute to criterion compliance (prerequisites or credits).

The following information shows the areas where Hilti Fireprotection Cable Coatings can potentially contribute, as well as the maximum number of points that can be achieved by accomplishing each criteria and state the required values and explanations for the building certification process.



Hilti Fireprotection Cable Coating Exterior is developed for cable protection. Hilti cable coatings are designed to stop or reduce the spread of fire with no negative affect on the cables. CP 679-A is tested for outside use.

Sustainable sites management		LEED	BREEAM	
		Criteria (Up to # points) & Evaluation		
Construction site waste	No waste or dust generation during installation	SS Prerequisite 1 ★★★★★	Wst 1 (3)	★★★★★
Life cycle assesment, Product Carbon Footprint	Under evaluation	SS Credit 5.2 (1) ★☆☆☆☆	Man 3a (4 for Man 3) Mat 1 (4)	★★☆☆☆
Water consumption	No water demand during installation	WE Credit 2 (2) ★★★★★	Man 3c (4 for Man 3)	★★★★★
Water pollution	No waste water generation during installation			
Application	Can be painted or sprayed and no electric tool is needed during installation	-	-	

Energy Optimization, Atmosphere and Pollution

Air tightness*	Not applicable	EA Prerequisite 2 ★☆☆☆☆	Ene 1 (15) Ene 6 (1)	★★☆☆☆
Thermal insulation*	Not applicable	EA Credit 1 (1-19) IEQ Credit 7.1 (1) ★☆☆☆☆	Ene 1 (15) Mat 6 (2)	★★☆☆☆
Ozone Depletion Potential	Under evaluation	EA Prerequisite 3 ★☆☆☆☆	IC (1)	★★☆☆☆

Materials and Resources

Reusability	The Hilti Cable Coating is not reusable	MR Credit 1.1 (1-3) MR Credit 1.2 (1) ★☆☆☆☆	Wst 1 (3)	★★☆☆☆
Product recycling	The product cannot be recycled or salvaged but the packaging can be totally recycled or salvaged	MR Credit 2 (1-2) ★★★★★	Wst 1 (3)	★★★★★
Recycled content	No, since fireprotection products require the traceability of their raw materials to guarantee uniform and constant product performance and quality.	MR Credit 4 (1-2) ★☆☆☆☆	Mat 5 (3)	★★☆☆☆
	The packaging is not manufactured with recycled material			
Product origin	Raw materials origin: Germany	MR Credit 5 (1-2) ★☆☆☆☆		★★☆☆☆
	Manufacturing location: Germany			
Rapidly Renewable Materials	Raw materials are not rapidly renewable	MR Credit 6 (1) ★☆☆☆☆	-	★★☆☆☆

Indoor Environmental Quality, Health and Wellbeing

IAQ (Indoor Air Quality) Management	No dangerous good or labelling needed and no content of carcinogens	IEQ Credit 3.1 (1) ★★★★★	-	
	Halogenated Flame retardants	IEQ Credit 3.2 (1) ★☆☆☆☆		
Low-Emitting Materials Volatile Organic Compounds	Not determined	IEQ Credit 4.1 (1) IEQ Credit 4.2 (1) ★☆☆☆☆	Hea 9 (1)	★★☆☆☆
Acoustic Performance & Soundproofing	Not applicable	-	Hea 13 (1)	★★☆☆☆

- ★★★★★ Product highly contributes to Green Building certification under this clause
- ★★★★☆ Product contributes to Green Building certification under this clause
- ★★★☆☆ Not applicable for this product or dependent on each situation and so not possible to evaluate in general terms
- ★★☆☆☆ Product makes no contribution to Green Building certification under this clause

* Lower heating and cooling costs

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BU Chemicals, CETsp&CMT

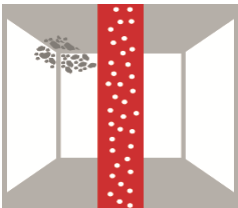
The sustainability of sites is improved with Hilti Fireprotection Coatings by supporting LEED, BREEAM and the following extra properties and highly important characteristics of a building, as well as, preventing effectively from the spread of a fire:



The construction material's ability to withstand the effects of water and moisture not only in the completed, occupied building, but also during the construction phase, is increasingly important. During the construction phase, rain can wash-out water-based sealants or coatings recently applied. Hilti Fireprotection Cable Coatings have been tested in accordance with DIN 52461, thus the user can know how long it takes to dry and harden to be no longer susceptible by water.



Derating means diminution of electrical power. It is a phenomenon that happens when a cable heats up due to the pass of electricity and the heat cannot be dissipated. The cable can then get hotter and can lead to a decrease in performance or even to dangerous situations like a fire. In most of the cases cable installations are designed to ensure the equilibrium of heating and heat dissipation. Hilti Fireprotection Cable Coatings have passed external assessments that determine no contribution to the Derating effect and so its use does not lead to a higher risk situation.



Mold in a building can attack and weaken many types of build materials and fungus, caused by moisture and humidity, can be seriously detrimental to the health of building users. Measures to successfully prevent the formation of mold and mildew in a building must be taken at the planning stage. Hilti Fireprotection Cable Coatings are manufactured with materials that provide no nutrition for fungi and tested in accordance with ISO 846 and ASTM G21, to ensure that functionality is not compromised.

All the packagings and cans used by Hilti can be recycled. Hilti Fireprotection Coating can be totally used without the need to generate waste on the jobsite during the construction phase and they are considered household waste at the end of the life of the building. Please consider your national law regarding the disposal of the Fireprotection Coating and contact your local Hilti partner for further information.



The spread of fire in a building is probably the worst scenario owners or occupants can imagine. When it comes to effectively minimizing the effects of fire, the interplay of a variety of systems and elements is required. Active fire protection – including components such as fire alarms and fire extinguishers – is taken into account in many buildings. On the other hand, often less emphasis is placed to measures, which help to contain fire at its point of origin and prevent the spread of fire and smoke effectively. This should ideally be designed already in the planning phase. Cable Coatings prevent the ignition of cables, stay or delay the spread of fire and reduce temporarily the fire load in case of fire.



If you need additional information or documentation on a certain HSE issue, please do not hesitate to contact your local Hilti partner - we are happy to provide you with additional information required to make your green building project a success.