



Hilti CP 679A Plus Firestop Cable

Coating System Submission Folder

Product Information and Method Statement	2
Test Reports	
BS 476 Part 6 & 7 Report	5
FM Approval Report No. R465357	11
DNV approval Certificate No:TAE00004T8	12
VOC Content	14
Letters	
Government Letters	15
Country of Origin	18
LEED Letter	19
Non-CFC and Ozone Confirmation	20
Material Safety Data Sheet	21



Recycling one ton of paper saves 17 trees and 7000 gallons of water.
Please consider your environmental responsibility before using the hard copy version!

Firestop cable coating CP 679A Plus



APPLICATIONS

- Protection of cables and bunched cables on cable trays
- Meets IEC 60332-3-22 Category A standard for reduced spread of flame
- Factory Mutual Approved (fire retardant coating of electrical cables)
- For use in power plants, telecommunications complexes, industrial plants, petrochemical plants, paper mills, factories and production facilities
- Easy to apply using a paint brush or airless spray gun

ADVANTAGES

- Intumescent
- Water soluble, odourless and solvent free
- Free of fibres and asbestos
- No derating effects on cables
- Rapid drying, remains flexible when dry
- Compatible with the sheathing of electrical cables



Siesmic



Low VOC



Mould & Mildew

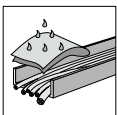
Consumption Guide

Test Standard	Dry film thickness	Wet film thickness	Approx. Requirement
IEC 60332-3	1.0 mm coating	1.4 mm coating	1.8 kg/m ² (1.3 liters/m ²)
Factory Mutual Approval	1.6 mm coating	2.2 mm coating	2.86 kg/m ² (2.1 liters/m ²)

Note (a): Each 20 kilogram container of CP 679A Plus contains approximately 14.1 liters.

Note (b): For cable trays or cable bundles with large cables, allow approx. 10% wastage for application by brush or roller.
For cable trays or cable bundles with small cables, allow approx. 20% wastage for application by brush or roller.

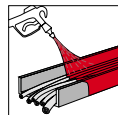
Application Procedure



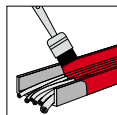
Clean cables



Mix coating



Apply coating



Order Now

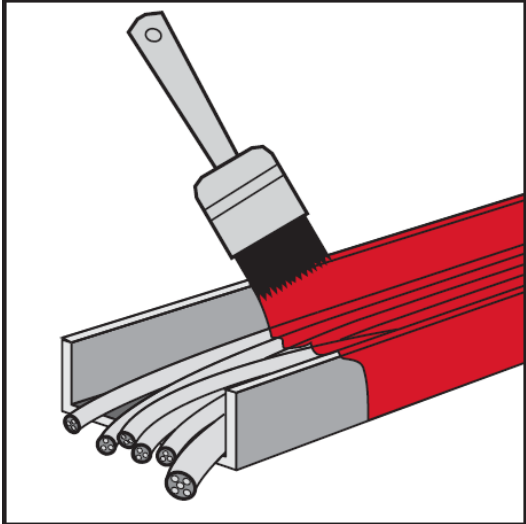


Ordering designation	Weight	Package contents	Sales pack quantity	Item number
CP 679A Plus	20 kg	1x Firestop cable coating CP 679A Plus	1 pc	2398669

Please visit Hilti website for the latest item numbers and related products

Subject: Method Statement of CP 679A Plus
Material: CP 679A Plus Cable coating
Accessory: Nil

Setting Operation		
1	<p>Clean the cables. The cables and cable supporting structures must be dry and free from dust, grease or oil, and installed in compliance with local building and electrical standards.</p>	
2	<p>Thoroughly mix CP 678, until it becomes workable for application. Any separated water in the container must also be mixed in.</p> <p>Note: do not add water!</p>	
3a	<p>Coat the cable or bunched cables on all sides by an airless spray (with airless spray gun with recommended 0.029" nozzle and 40° spray angle)</p>	

3b	Coat the cable or bunched cables on all sides by a brush.	 An illustration showing a grey brush with a black bristle head being applied to a red cable. The cable is partially encased in a grey protective sleeve. The brush is positioned to coat the exposed red portion of the cable. The background is white.
----	---	--

Safety precautions:

- Keep out of reach of children
- Wear protective clothing, goggles and gloves when installing
- Keep away from foodstuffs
- Particular danger of slipping on leaked / spilled product
- Ensure adequate ventilation

Test Report

Report No.: YJ2023090200R01

Page 1 of 6

Company Name: Hilti (Hong Kong) Ltd.

Address: 701-704A & 708 A&B, 7/F, Tower A, Manulife Financial Centre, 223 Wai Yip Street, Kwun Tong,
Hong Kong

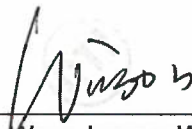
The following sample(s) and sample information was/were submitted and identified on behalf of the client

Sample Name : Hilti CP679A+ Firestop coating (1.5mm thickness)
Manufacturer : Hilti Corporation
Test Requested : BS 476-6:1989+A1:2009 (R2015) & BS 476- 7:1997(R2016)
Test Item(s) : Fire propagation & Flame spread

Test Information

Sample Received Date : Sep. 26, 2023
Test Period : Sep. 26, 2023 to Oct. 09, 2023
Test Result(s) : See attach sheet
Conclusion : See attach sheet

Approved by: _____



Wang Junyan, Winson
Authorized Signatory

Date: _____

Oct. 20, 2023



Zhejiang CTI Foresight Testing Co., Ltd. Room 101, No. 13-1, Building 13, No. 11, Lingang Road, Renhe Street, Yuhang District, Hangzhou, Zhejiang, China
Building 13-1, No. 11, Lingang Road, Renhe street, Yuhang District, Hangzhou, Zhejiang, China

Test Report

Report No.: YJ2023090200R01

Page 2 of 6

A. Sample Details

Sample Description	Calcium silicate board+ Coating		
Color	White	Exposed surface	Coating surface
Specimen size	BS 476-6: 255mm×255mm×11.2mm		
	BS 476-7: 885mm×270mm×11.2mm		

B. Test Result Summary

Test method	Parameter	Test results
BS 476-6:1989+A1:2009 (R2015)	i ₁ (max.)	2.5
	I (max.)	4.3
BS 476- 7:1997(R2016)	Surface spread of flame (worst permissible class)	Class 1

C. Requirements

A Class 0 is the highest national product performance classification for lining materials, and the requirements laid down in the UK Building Regulation 2006 Approved Document B, appendix A paragraph 13. This is achieved if a material or the surface of a composite product is either:

- a. composed throughout of materials of a limited combustibility; or
- b. a Class 1 material which has a fire propagation index (I) of not more than 12 and sub-index (i₁) of not more than 6.

D. Conclusion

It is the opinion of this laboratory that, the tested sample **complies with** the requirement of **Class 0** of UK Building Regulations 2006 Approved Document B, appendix A paragraph 13.

华测检测
 CTI
 Inspection

Test Report

Report No.: YJ2023090200R01

Page 3 of 6

E. Details of Test Items

1. Fire propagation

i. Test Method

This test is conducted accordance with BS 476-6:1989+A1:2009(R2015) Fire tests on building materials and structures - Part 6: Method of test for fire propagation for products.

ii. Traceability Record

1) Conditioning

Temperature	23.2 °C	Relative Humidity	51 % R.H.
Start Time	Sep. 27, 2023	End time	Oct. 07, 2023

iii. Test Results

Specimen	S ₁	S ₂	S ₃	Index of performance, S
A	2.4	1.2	0.4	4.0
B	2.6	1.2	0.5	4.3
C	2.4	1.4	0.5	4.3
1/3·Σ	2.5	1.3	0.5	--

Specimen	i ₁	i ₂	i ₃	Fire propagation index, I
A, B, C	2.5	1.3	0.5	4.3

Note: Throughout the test on each specimen, carefully observe the material's behaviour within the apparatus and take special note of any of the following phenomena listed in clause 9.2 of the standard. None of the listed phenomena was observed and the test results on all three specimens tested were valid.

The index of the performance for the specimen was determined as follows:

$$S_1 = \sum_{t=0.5}^{t=3} \frac{\theta_s - \theta_c}{10t}, \quad S_2 = \sum_{t=4}^{t=10} \frac{\theta_s - \theta_c}{10t}, \quad S_3 = \sum_{t=12}^{t=20} \frac{\theta_s - \theta_c}{10t}, \quad S = S_1 + S_2 + S_3$$

Where:

S = index of performance for each of the specimens tested and S1, S2 and S3 are sub- indices;

t = Time in minutes from the origin at which readings are taken;

θ_s = Temperature rise in °C for the specimen at time, t;

θ_c = Temperature rise in °C for the calibration sheet at time, t

Fire Propagation index $I = i_1 + i_2 + i_3$

Where, i_1 , i_2 and i_3 are given by the expressions:

$$i_1 = \frac{1}{3} [(S_1)_A + (S_1)_B + (S_1)_C], \quad i_2 = \frac{1}{3} [(S_2)_A + (S_2)_B + (S_2)_C], \quad i_3 = \frac{1}{3} [(S_3)_A + (S_3)_B + (S_3)_C]$$



Test Report

Report No.: YJ2023090200R01

Page 4 of 6

2. Fire propagation

i. Test Method

This test is conducted accordance with BS 476- 7:1997(R2016) Fire tests on building materials and structures - Part 7: Method of test to determine the classification of the surface spread of flame of products.

ii. Traceability Record

1) Conditioning

Temperature	23.2 °C	Relative Humidity	51 % R.H.
Start Time	Sep. 27, 2023	End time	Oct. 07, 2023

2) Test Conditioning

Temperature	26.7 °C
-------------	---------

iii. Test Results

Specimen	1	2	3	4	5	6
Time to travel 75mm(mm:ss)	--	--	--	--	--	--
Time to travel 165mm(mm:ss)	--	--	--	--	--	--
Time to travel 190mm(mm:ss)	--	--	--	--	--	--
Time to travel 215mm(mm:ss)	--	--	--	--	--	--
Time to travel 240mm(mm:ss)	--	--	--	--	--	--
Time to travel 265mm(mm:ss)	--	--	--	--	--	--
Time to travel 290mm(mm:ss)	--	--	--	--	--	--
Time to travel 375mm(mm:ss)	--	--	--	--	--	--
Time to travel 455mm(mm:ss)	--	--	--	--	--	--
Time to travel 500mm(mm:ss)	--	--	--	--	--	--
Time to travel 525mm(mm:ss)	--	--	--	--	--	--
Time to travel 600mm(mm:ss)	--	--	--	--	--	--
Time to travel 675mm(mm:ss)	--	--	--	--	--	--
Time to travel 710mm(mm:ss)	--	--	--	--	--	--
Time to travel 750mm(mm:ss)	--	--	--	--	--	--
Time to travel 785mm(mm:ss)	--	--	--	--	--	--
Time to travel 825mm(mm:ss)	--	--	--	--	--	--
Max distance traveled at 1.5min(mm)	<50	<50	<50	<50	<50	<50
Max distance traveled during the test(mm)	<50	<50	<50	<50	<50	<50
Time to reach max distance traveled(mm:ss)	10:00	10:00	10:00	10:00	10:00	10:00
Observations during test	--	--	--	--	--	--

Note: "--" Not reached the reference line.

检测
ght Test
专用
Testing Se

Test Report

Report No.: YJ2023090200R01

Page 5 of 6

iv. Classification criteria

1) Classification of spread of flame

Classification	Spread of flame at 1.5 min		Final spread of flame	
	Limit(mm)	Limit for one specimen in sample(mm)	Limit(mm)	Limit for one specimen in sample(mm)
Class 1	165	165+25	165	165+25
Class 2	215	215+25	455	455+45
Class 3	265	265+25	710	710+75
Class 4	Exceeding the limits for Class 3			

2) Explanation of prefix and suffixes which may be added to the classification

- i. A suffix R is added to the classification if more than six specimens are required in order to obtain six valid test results (e.g. class 2R).
- ii. A prefix D is added to the classification of any product which does not conform to the surface characteristics specified in the standard and has therefore been tested in a modified form (e.g. class D3).
- iii. A suffix Y shall be added to the classification if any softening and/or other behaviour that may affect the flame spread occurs.
- iv. If four or more invalid test results are achieved from one sample, then the product shall be classified as “not suitable for assessment by this test method”.

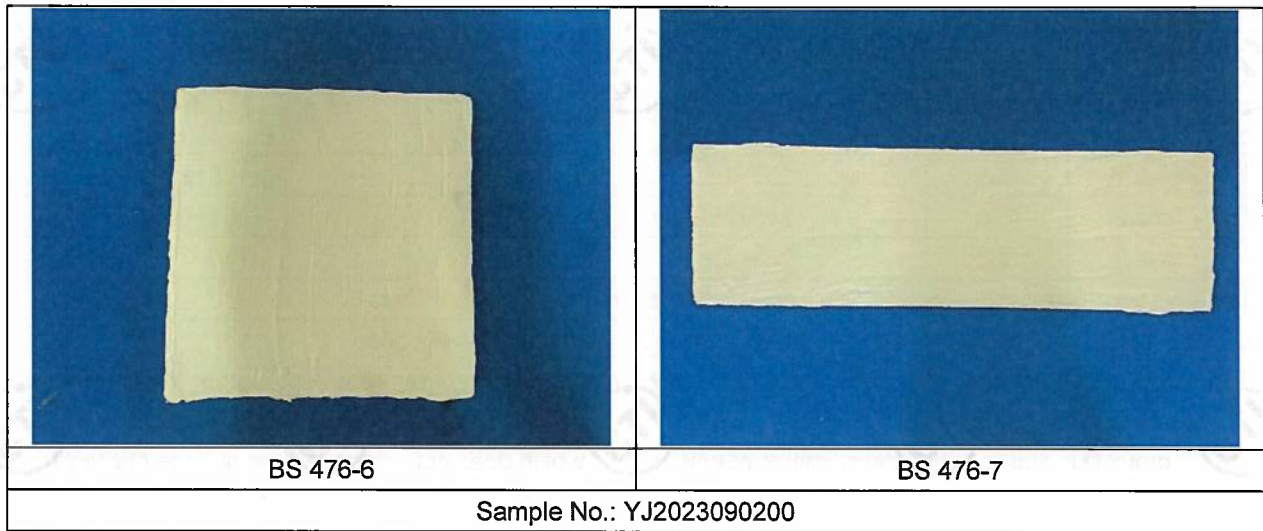
上海华测检测技术有限公司
 SHANGHAI HUACE TESTING CO., LTD.
 章
 TRICES

Test Report

Report No.: YJ2023090200R01

Page 6 of 6

Photo Appendix



Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI-FST hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI-FST, this report can't be reproduced except in full.
5. The test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc... and just for client internal reference.
6. The test report is to supersede the test report No.: YJ2023090200, Date: Oct.09, 2023. Sample name was revised.

*** End of Report ***

限公司



Certificate of Compliance

This certificate is issued for the following:

CP 679A Plus FIRE PROTECTION CABLE COATING

Prepared for:

Hilti AG
Feldkircherstr. 100
Schaan, 9494
Liechtenstein

FM Approvals Class: 3971

Approval Identification: PR465357 Approval Granted: 12 April 2023

To verify the availability of the Approved product, please refer to www.approvalguide.com or www.roofnav.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in dark ink, appearing to read 'Phillip J. Smith', is written over a light grey rectangular background.

Phillip J. Smith
VP - Manager of Materials
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062



Member of the FM Global Group



Certificate No:
TAE00004T8

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Fire Stop System for Cable

with type designation(s)
FIRE PROTECTION CABLE COATING CP 679A Plus

Issued to

Hilti AG
Schaan, Liechtenstein

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2023-09-08**

This Certificate is valid until **2028-09-07**.

DNV local unit: **Augsburg**

Approval Engineer: **Carsten Hunsalz**

for **DNV**

Frederik Tore Elter
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2022-12

www.dnv.com

Page 1 of 2



Job Id: 262.1-039547-1
Certificate No: TAE00004T8

Product description

Solvent-free, water based dispersion with inorganic fillers for fire stop systems on electrical cables.

Type: FIRE PROTECTION CABLE COATING CP 679A Plus

Colour: white or grey
Density: 1,34 - 1,48 g/cm³
PH-value: Aprox. 7,4
Viscosity: 6.000 - 10.000 mPas

Recommended dry film thickness: 0,5 mm

For spraying and brush-painting application.

Application/Limitation

Precautions against fire spreading in cable bunches:

The cable or the bunched cables to be coated on all sides. In enclosed and semi-enclosed spaces cable runs to be coated at least 1 metre in every 14 metres for horizontal runs and to entire length of vertical runs.

This approval is only valid for coating applied by Hilti or according to Hilti application instructions.

Type Approval documentation

Tests carried out

IEC 60332-3-22, Category A: 2018 for 60 minutes,
DIN EN 60332-3-22 / VDE 0482-332-3-22

Marking of product

The product or packing is to be marked with name of manufacturer and type designation.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE

eco-INSTITUT, Schanzenstr. 6-20, D-51063 Köln

Hilti Entwicklungsgesellschaft mbH
Mr. Eric Gosling
Hiltistraße 6
86916 Kaufering

Dear Mr. Gosling,

based on the evaluation of the Test Reports No. 58112-B001-CS-L dated 2023-07-11 and 58112-B001-L dated 2023-08-02, the testing results of the product **FIRE PROTECTION CABLE COATING CP 679A Plus** manufactured by Hilti Entwicklungsgesellschaft mbH comply with the requirements of

- VOC product emissions acc. to California Department of Public Health (CDPH) Standard Method v1.2-2017 (California Specification 01350 (01/2017))
-
- VOC content ASTM D 2369 – 20 and South Coast Air Quality Management District (SCAQMD) Rule 1113

These criteria meet the requirements for low-emitting **Paints and Coatings** in credit EQc2 of the LEEDv4 Rating System and the LEEDv4.1 Rating System.

Acceptance Criteria and Results Demonstrating Compliance of Product Sample to Referenced Standard:

Exposure Scenario	Individual VOCs of Concern		Formaldehyde		TVOC
	Requirement	Requirement hold	Requirement	Requirement hold	Range
School Classroom	½ CREL	yes	≤ 9 µg/m³	yes	≤ 0.5 mg/m³
Private Office	½ CREL	yes	≤ 9 µg/m³	yes	≤ 0.5 mg/m³

Mass per surface area: 4000 g/m²

VOC content	VOC Limit Value*
0 ** g/L	150 g/L

* VOC Limit Value for "Fire-Proofing Coatings" (SCAQMD 1113, 02/2016)

** The volatile content determined according to ASTM D 2369-20 is slightly lower than the water content determined according to DIN 51777:2020-04 Method C. The difference is within the measurement uncertainty of both methods.

Cologne, 2023-06-28



Marc-Anton Dobaj, M.Sc. Crystalline Materials
(Project manager)

eco-INSTITUT Germany GmbH / Schanzenstrasse 6-20 / Carlswerk 1.19 / D-51063 Köln / Germany
Tel. +49 221.931245-0 / Fax +49 221.931245-33 / eco-institut.de / Geschäftsführer: Dr. Frank Kuebart, Daniel Tigges
HRB 17917 / USE-ID: DE 122653308 / Raiffeisenbank Frechen-Hürth, IBAN: DE60370623651701900010, BIC: GENODED1FHH

Buildings Department

屋宇署

Our Ref. 本署編號: (24) BD GR/BM/2(185)

Your Ref. 來函編號:

Tel. No. 電話: 848 2838

Fax No. 圖文傳真: 840 0451

Hilci (Hong Kong) Ltd.
Unit 3 5/F Harbour Centre Tower 2
8 Hok Cheung Street Hung Hom
Kowloon

26 May 1994

Dear Sirs,

Fire Resisting Penetration Sealing System
As Supplied By Hilci (GB) Ltd.

Thank you for your letters dated 4.3.94 and 27.4.94 and the accompanying test/assessment reports on the above. You are asking for comments on the acceptability of the fire resisting product in the context of relevant provisions of the Buildings Ordinance, Chapter 123 of the Law of Hong Kong and its subsidiary legislation.

Under the Buildings Ordinance, "authorized persons" (i.e. architects, engineers or surveyors registered with the Building Authority) are required to supervise building works including the selection and installation of fire resisting products and to certify compliance with the Buildings Ordinance upon completion of works. Authorized persons are therefore responsible for ensuring the safety requirements inter alia of fire resisting products in the building projects which they have been appointed by the developer to coordinate and supervise.

In establishing the acceptability of fire resisting products, reference may be made to the performance standards laid down in Building (Construction) Regulation 90, the current Code of Practice for Fire Resisting Construction issued by the Building Authority and British Standard 476: Parts 20 to 24. Reliance may also be placed on the test/assessment report prepared by a recognized laboratory or an equivalent establishment.

The Buildings Department has a list of recognized laboratories. This is available for reference at our office :

Technical Administration (Building) Unit
Buildings Department
11/F Murray Building
Garden Road Hong Kong

Before fire resisting products are installed in a building project, the authorized person appointed for the project should be approached for advice and guidance.

Your test/assessment reports are returned herewith. In this respect, please note that paragraph 3 of my letter dated 25 January 1994 is no longer applicable. The delay in replying is regretted.

Yours faithfully,


(Patrick H. Tsui)

Technical Secretary/Building
for Director of Buildings

消防處
防火組

香港九龍尖沙咀東部康莊道1號
消防總部大廈



FIRE SERVICES DEPARTMENT,
FIRE PROTECTION BUREAU,

FIRE SERVICES HEADQUARTERS BUILDING,
No. 1 Hong Chong Road,
Tsim Sha Tsui, East Kowloon,
Hong Kong.

本處編號 Our Ref.: FPB 207/0005

來函編號 Your Ref.: L026/92HK

29 April 1992

電訊掛號 Telex: 39607 HKFSD HX } (24 小時 Hours)

圖文傳真 Fax: 852-3110066
852-3689744

電話 Tel. No.:

733 7596

Hilti (Hong Kong) Ltd.,
Unit 3, 5/F, Harbour Centre,
Tower 2,
8 Hok Cheung Street,
Hung Hom, Kowloon.

Dear Sirs,

"HILTI" Fire Prevention System

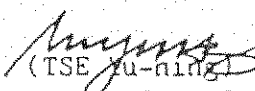
I refer to your letter of 30.3.92 and the enclosures attached thereto.

Based on the information contained in your letter under reference and the given test report, I understand that the captioned product is a building material which should be approved by the Director of Buildings and Lands. As such, I am not in a position to process your application and you are advised to refer your enquiry to the Director of Buildings and Lands, whose address is listed hereunder :-

The Director of Buildings and Lands,
(Attn.: Technical Secretary/Building, B.O.O.)
Murray Building,
Garden Road,
Central,
Hong Kong.

Please feel free to contact us should you have any other question in this matter.

Yours faithfully,


(TSE Yu-ning)
for Director of Fire Services



ARCHITECTURAL SERVICES DEPARTMENT 建築署

QUEENSWAY GOVERNMENT OFFICES, 66 QUEENSWAY, HONG KONG. 香港金鐘道六十六號金鐘道政府合署
FAX 852-2869 0289

Our Ref : ASD 16/92101/AML/APP
Your Ref. : -----
Tel. No. : 2867 3631
Fax No. : 2877 0594

06 June 1997

Hilti (HK) Ltd
17/F, Tower 6, China HK City,
33 Canton Rd., TST

Dear Sirs,

~~Architectural Services Department~~
List of Acceptable Materials
~~Hilti Firestop Products~~
Ref. no. 0001P

I am pleased to inform you that approval has been given to include the above product/material in this Department's List of Acceptable Materials. Initially, this listing is for a probationary status and this will be reviewed after the submission of satisfactory performance reports on completion of projects undertaken by this Department where your product has been used.

The Architectural Services Department List of Acceptable Materials is a restricted internal document. This letter should not be used for commercial or marketing purposes and failure to comply with this may result in the removal of the product from the List.

Yours faithfully,

(W.M. TANG)

Technical Secretary/2

for Chief Architect/ Central Management Branch
Architectural Services Department

Attn. : To whom it may concern

Date : 11 March 2024

Ref. : 037/FP/DY/24

Subject : Country of Origin- Hilti CP 679A Plus Firestop Cable Coating

Dear Sir / Madam,

Enclosed please find the information of Hilti CP 679A Plus Firestop Cable Coating.

Brand Name : Hilti

Model Name : Hilti CP 679A Plus Firestop Cable Coating

Manufacturer : Hilti Corporation

Address of Manufacturer : FL-9494, Principality of Liechtenstein.

Manufacturer Contact Person : Dennis Yeung

Supplier : Hilti (Hong Kong) Ltd

Address of Supplier : 701-704, 7/F, Tower A, Manulife Financial Centre,
223 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Supplier Contact Person : Dennis Yeung (+852 9723 4621)

Country of Origin : Germany

Should you have further questions, please do not hesitate to contact our Technical Representatives, Customer Service Hotline at 8228-8118, or email us at hksales@hilti.com.

Yours faithfully,



Dennis Yeung
Head of Product Leadership Strategy, F&P

Ref. no : 038/FP/HY/24
Date : 12 Mar 2024

Subject : Hilti CP 679A Plus Firestop Cable Coating – LEED Information

To whom it may concern,

- The Hilti CP 679A Plus Firestop Cable Coating is manufactured in Germany.
- The Package of the Hilti CP 679A Plus Firestop Cable Coating can be completely recycled.
- There is no recycled content in the Hilti CP 679A Plus Firestop Cable Coating and it cannot be recycled.
- The Hilti CP 679A Plus Firestop Cable Coating does not share any rapidly renewable materials.
- The VOC content of the Hilti CP 679A Plus Firestop Cable Coating is 0 g/l.

If you would like to know more about Hilti solutions for LEED buildings or should you have any further questions, please do not hesitate to contact our Customer Service Hotline at 8228-8118 or email us at hksales@hilti.com.

Yours faithfully,



Howard Yip
Assistant Product Portfolio Manager
Hilti (Hong Kong) Ltd.

Ref. no : 039/FP/HY/24
Date : 12 Mar 2024

Subject : Hilti Firestop Products non-CFC and Ozone Confirmation

Dear Sir / Madam,

Referring to your enquiry about the captioned subject, please be advised that:

Hilti firestop products, CP 679A Plus Firestop Cable Coating is free of CFC, HCFC nor other ozone depletion elements.

CFC, HCFC and ozone depletion elements were not used during the product process neither.

Should you have further questions, please do not hesitate to contact our Technical Representatives, Customer Service Hotline at 8228-8118, or email us at hksales@hilti.com.

Yours faithfully,



Howard Yip
Assistant Product Portfolio Manager
Hilti (Hong Kong) Ltd.



CP 679A Plus

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

Issue date: 01/03/2023

Revision date: :

Version: 1.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form	Mixture
Product name	CP 679A Plus
Product code	BU Fire Protection

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture	Firestop coating
------------------------------	------------------

1.4. Supplier's details

Supplier

Hilti (Hong Kong) Ltd.

701-704, 7/F, Tower A, Manulife Financial Centre 223 Wai Yip Street, Kwun Tong

Tong

HK– Kowloon

Hong Kong

T +852 27734 700

hksales@hilti.com

Department issuing data specification sheet

Hilti AG

Feldkircherstraße 100

FL– 9494 Schaan

Liechtenstein

T +423 234 2111

chemicals.hse@hilti.com

1.5. Emergency phone number

Emergency number	Schweizerisches Toxikologisches Informationszentrum – 24h Service
	+41 44 251 51 51 (international)
	+852 27734 700

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Not classified

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

CP 679A Plus

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Titanium dioxide	CAS-No.: 13463-67-7	2.5 – 10	Carcinogenicity, Category 2, H351 Hazardous to the aquatic environment – Acute Hazard, Category 3, H402

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	May cause an allergic skin reaction.
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Explosion hazard	No direct explosion hazard.
Hazardous decomposition products in case of fire	Formation of toxic gases is possible during heating or in case of fire.

5.3. Special protective actions for fire-fighters

Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Avoid contact with skin and eyes.
6.1.1. For non-emergency personnel	
Emergency procedures	Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	Equip cleanup crew with proper protection.

CP 679A Plus

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	Liquid
Appearance	Pasty
Colour	white.
Odour	slight. odourless.
Odour threshold	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	≈ 100 °C
Flammability	Non flammable.
Lower explosion limit	Not available
Upper explosion limit	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	7 – 7.8
pH solution concentration	10 %
Viscosity, kinematic (calculated value) (40 °C)	Not available
Partition coefficient n-octanol/water (Log Kow)	Not available
Vapour pressure	Not available
Vapour pressure at 50°C	Not available
Density	1.34 – 1.48 g/cm ³
Relative density	Not available
Relative vapour density at 20°C	Not available
Solubility	Not available
Viscosity, dynamic	25000 – 40000 mPa.s
Particle size	Not applicable

9.2. Data relevant with regard to physical hazard classes (supplemental)

Explosive properties	Product is not explosive
Oxidising properties	Not applicable
VOC content	< 10 % <140 g/l VOC: 2004/42/EG

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

CP 679A Plus

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

Titanium dioxide (13463-67-7)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))
Skin corrosion/irritation	Not classified pH: 7 – 7.8
Serious eye damage/irritation	Not classified pH: 7 – 7.8
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Not classified

Titanium dioxide (13463-67-7)	
LC50 - Fish [1]	> 1000 mg/l (Pisces, Fresh water)
LC50 - Other aquatic organisms [1]	> 10000 mg/l
EC50 - Crustacea [1]	> 1000 mg/l (Invertebrata, Fresh water)
EC50 - Crustacea [2]	> 10000 mg/l
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)
ErC50 algae	61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)

12.2. Persistence and degradability

CP 679A Plus	
Persistence and degradability	Not established.
Titanium dioxide (13463-67-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)



CP 679A Plus

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

12.3. Bioaccumulative potential

CP 679A Plus	
Bioaccumulative potential	Not established.
Titanium dioxide (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

CP 679A Plus	
Mobility in soil	No additional information available
Titanium dioxide (13463-67-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.

12.5. Other adverse effects

Ozone	Not classified
Other adverse effects	No additional information available
Other information	Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable



CP 679A Plus

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

Air transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

Issue date 01/03/2023

Other information None.

Full text of H-statements:	
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects

SDS_UN_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.