

# CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality  
hereby attests that the product(s)

## Concrete Admixtures

(Details as per the attached Scope of Certification)

manufactured by:

**KRYTON INTERNATIONAL INC.**  
**VANCOUVER-BC, CANADA ,V5P2S8**

have been assessed in accordance with DCLD Document Ref. No. DM-DCLD-RD-DP21-2001 (IC) "General Rules for DM third party product certification system through factory assessment" and the relevant Specific Rules, and were found in conformity with the standard specification:

## BS EN 934-2:2009+A1:2012

Accordingly, DCLD hereby authorizes the above manufacturer  
to affix the DCL Product Conformity Mark on the above-mentioned product(s).



for / ENGR. AMIN AHMED AMIN  
Director, Dubai Central Laboratory Department  
Dubai Municipality



Certificate No: CL18020646  
Valid Until: 17/07/2020



Current Issue Date: 18/07/2019  
Original Issue Date: 18/07/2018

The attached Scope of Certification bearing the same Certificate Number forms an integral part of this Certificate.  
This Certificate is an electronic document subject to the Terms and Conditions of the Product Certification System and shall not be reproduced except in full.

**DUBAI CENTRAL LABORATORY DEPARTMENT  
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME**

**SCOPE OF CERTIFICATION  
FOR CERTIFICATE NO. CL18020646**

**Certificate Issued To:** KRYTON INTERNATIONAL INC  
VANCOUVER-BC, CANADA ,V5P2S8

**Applicable Standard Specification:** BS EN 934-2 Admixtures for concrete, mortar  
**Applicable Specific Rules:** RD-DP21-2195(IC) Specific rules for concrete admixtures

S/N	Product Description	Brand Name	Product Details
1	water resistance concrete admixture	KIM-HS	<ol style="list-style-type: none"><li>1- Krystol Internal Membrane (KIM-HS) is a powder admixture, consisting of blended Portland cement and proprietary chemicals, that when incorporated in concrete enhances the water resistance and durability of the hardened concrete</li><li>2- KIM- HS is suitable for use in basements, roofs, swimming pool, tunnels and culverts.</li><li>3- KIM- HS is compatible with cement blends containing fly ash, GGBS. and micro silica</li><li>4- KIM-HS is satisfactory in concrete with manufacturer's recommended rate of dosage, with a maximum of 8Kg/m3.</li></ol>

**DUBAI CENTRAL LABORATORY DEPARTMENT  
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Below table 1 shows the properties KIM- HS when tested and compared with plain concrete (control mix)

Table 1

Properties	Test method	Control mix	KIM- HS
KIM- HS dosage		-	7.0 Kg/m <sup>3</sup>
Slump (mm)	Flow (mm) initial	400	360
Bleeding	BS EN480-4	0	0
Fresh density kg/m <sup>3</sup>	BS EN 12350-6	2460	2450
initial setting time	ASTM C 403	3:28	5:21
final setting time	ASTM C 403	5:23	6:25
Air content (%)	ASTM C231 - Pressure Method.	0.9	1.0
Compressive strength@ 28 days N/mm <sup>2</sup>	BS 1881 -P116	49.3	49.0
Depth of penetration (mm)	BS EN 12390 – 8	11	3
Conventional dry material % by wt	BS EN 480-8	-	99.34
Total Alkali Content (as Na <sub>2</sub> O equivalent)	BSEN 480-12	-	0.71
Water soluble chloride as Cl	BS EN 480-10:2009	-	<0.01

*Note: This property shown in this table is dependent on the concrete mix design. The purpose of this testing scheme was to show that the product enhances the concrete property and it was not intended to check the appropriateness of the concrete mix design used in the study.*

**NOTE1:** This document forms part of the Certificate of Product Conformity bearing the same certificate number.

**NOTE2:** The above product shall bear the DCL Conformity Mark.

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ARIF HUSAIN AL MARZOOQI  
Products Conformity Assessment Section Manager  
Dubai Central Laboratory Department