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Bellaterra	:	29th May 2024
Report number	:	**24/32303706M1**
Petitioner Reference	:	**KRYPTON CHEMICAL, S.L.** C/ Martí Franques, 12 43890 Hospitalet de l'Infant (Tarragona)

TEST REPORT

RECEIVED MATERIAL:

This tests report is traceable to our report number nº. 22/32302033 dated on 20th April 2022. The new reference of the product according to the petitioner is:

Krypton ProLine CH55

REQUESTED TESTS:

PRODUCTS AND SYSTEMS FOR THE PROTECTION AND REPAIR OF CONCRETE STRUCTURES. Definitions, requirements, quality control and evaluation of conformity. UNE-EN 1504-2:2005 Part 2: Surface protection systems for concrete.

1- Determination of carbon dioxide permeability, UNE-EN 1062-6:2003

TEST DATE: From 14/03/2022 to 19/04/2022

RESULTS : See attached pages.

Firmado digitalmente por JOAN MARTINEZ EGEA

Responsible for Construction Materials
LGAI Technological Center S.A.

Firmado digitalmente por RAUL MARTIN GARCIA

Technical Manager
LGAI Technological Center S.A.

The results included in this document refer exclusively to the indicated materials and has been tested according to the specifications given. The present report supersedes the test report number 24/32303706 dated on 30th April 2024. It is responsibility of the client to replace the original and all the copies.

LGAI Technological Center S.A. Inscrita en el registro Mercantil de Barcelona, Tomo 35.803, Folio1, Hoja Nº B-266.627 Inscripción 1ª C.I.F. : A-63207492

RESULTS:

1- Determination of carbon dioxide permeability, UNE-EN 1062-6:2003

- Three cylindrical test specimens have been prepared, approximate surface=0,0079 m^2 (100 mm diameter), to test with the substrate.
- After curing for 7 days in laboratory conditions, the test specimens undergo (according to Standard EN 1062-11;Sec.4.3) 3 water immersion and drying cycles.
- Finally, when the specimens reach constant mass (dessicator), the test will begin.
- Measuring gas: 10% carbon dioxide.
- Carbon dioxide absorber used: granulated sodium hydroxide for elemental analysis.
- Partial pressure difference: 10kPa (100 mbar).

Specimen	Thickness (mm)	Carbon dioxide permeability (i) ($g/m^2 \cdot d$)	Diffusion equivalent air layer thickness S_D (m)	Diffusion resistance number (μ)
1	1,25	3,9	63	50578
2	1,43	3,4	73	51353
3	1,26	4,0	62	49520
Average	**1,31**	**3,8**	**66**	**50484**

Requirements according to UNE-EN 1504-2:2005 Table 5	
Permeability to CO_2	Sd > 50 m