

WATER PERMEABILITY TEST REPORT

Background of the client

Company name	Contek Ingeniería Ltda.
RUT	76.607.150-3
Address	Antonio Secchi N° 036, comuna de Ñuñoa
Technical counterpart	Mr. Luis Rojas
Email	lrojas@contek.cl

Service background

Work order N°	54190
Purchase order N°	471 of June 11, 2019
Quotation N°	11767 of May 30, 2019
Test date	From August 23 to September 26, 2019
Testing laboratory	Special Testing Laboratory – Strength of Materials Unit
Testing address	Vicuña Mackenna N° 4860, Casilla 306 – Correo 22, Macul – Santiago
Sample	Waterproofing Velosit CA-112
Testing	Compressive strength and penetration of water under pressure.
Standard	UNE-EN 12390-8



Eng. Mario Olivares O.
Strength of Materials Unit
Dictuc S.A.

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RESULTS

1. Background

The determination of compressive strength and penetration of water under pressure was requested on a sample of Velosit waterproofing product. The sample was sent by the applicant.

2. Description of the sample

Sample	Waterproofing Velosit CA-112 Added at 1% in relation to the cementitious material
Date of preparation concrete	August 23 2019
Test age	28 days
Type of concrete	G30 in cylinders specimens 15x30 cm.
Pressure applied in the test	0,5 MPa (50 w.c.m)
Test date	From August 23 to September 26, 2019

3. Scope and Methodology

The test was performed according to the procedures indicated in the following standards:

NCh 1037 - 2009: "Concrete – Compression tests of cubic and cylindrical specimens".

UNE EN 12390-8: "Testing hardened concrete – Part 8: Depth of penetration of water under pressure".

For the waterproofing tests were made six concrete specimens, of which three were testing with reference concrete without product, and the remaining three were testing with the application of the product Velosit CA-112 at 1% in the concrete.

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4. Results

a. Compressive strength

Sample N°	Age of test (days)	Specimens N°	Density (kg/m ³)	Breaking Load (kN)	Cylindrical Compressive strength (MPa)
Reference	3	1	2.353	251	14,2
	7	2	2.366	386	21,8
	28	3	2.373	520	29,4
		4	2.368	531	30,0
Velosit CA-112	3	1	2.362	238	13,5
	7	2	2.385	384	21,7
	28	3	2.379	530	30,0
		4	2.381	511	28,9

b. Water Permeability

Sample N°	Age of test (days)	Specimens N°	Density (kg/m ³)	Penetration of water (mm)		Observation
				Measure	Average	
Reference	37	1	2.388	24	15	---
		2	2.387	22		---
		3	2.387	0		---
Velosit CA-112	37	1	2.380	0	0	A value of 0 mm indicates no penetration of water into the specimens
		2	2.382	0		
		3	2.380	0		

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