REPORT

Contact person
Pavlos Ollandezos
Renovation
+46 10 516 68 64
Pavlos.Ollandezos@cbi.se

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Translation

Reference 3P00597

Maynor AS
Roy Eide
Storebotn
NO-5300 Kleppestö
NORGE

ITT of INNERSEAL PLUS

(4 appendices)

1 Assignment

Testing of INNERSEAL PLUS on concrete. Tests carried out in accordance with the procedures of EN 1504-2:2004 *Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and evaluation of conformity –Part 2: Surface protection systems for concrete.*

2 Test schedule

The test objects and scope of the test are shown in table 1. The tests were carried out between September 2013 and Mars 2014.

Table 1. Test schedule for treated and untreated concrete samples

Nr	Property	Method SS-EN 1504-2, table 4	Test object Measurements (mm)	Number
4	Abrasion resistance	EN 5470-1	100x100x10	3 treated 3 untreated
8	Capillary absorption and permeability to water	EN 1062-3	250x120x30	3 treated
14	Impact resistance	EN ISO 6272-1	500x500x100	1 treated
15	Adhesion strength by pull-off test	EN 1542	500x500x100	1 treated
19	Depth of penetration	EN 14630	100x100x100	3 treated

The concrete and the test samples were produced and stored at CBI Swedish Institute for Concrete Technology in Borås in accordance with the directions of EN 1766.

INNERSEAL PLUS which arrived at CBI 2013-10-31, was applied by CBI and Niclas Schönfelder (Maynor) in accordance with the manufacturer's recommendations. The amount of finish applied was checked by weighing. CBI has no other information relating to the substance and sampling.

3 Comments

The tested product INNERSEAL PLUS meets the requirements of EN 1504-2:2004 *Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and evaluation of conformity –Part 2: Surface protection systems for concrete.*

Nr	Property	Method	Result	SS-EN 1504-2, table 4	Requirements meets
4	Abrasion resistance[1)]	EN 5470-1	34,0 %	At least 30 % improvement in abrasion resistance in comparison with a untreated sample	**Yes**
8	Capillary absorption and permeability to water	EN 1062-3	0,07 kg/m^{2}h^{0,5}	w < 0,1 kg/m^{2}h^{0,5}	**Yes**
14	Impact resistance[2)]	EN ISO 6272-1	Class III	Class I: ≥4 Nm Class II: ≥10 Nm Class III: ≥20 Nm	**Yes**
15	Adhesion strength by pull-off test	EN 1542	3,0 N/mm^2	≥1,0 N/mm^2 Horizontal without trafficking ≥ 1,5 N/mm2 Horizontal with trafficking	**Yes**
19	Depth of penetration[3)]	EN 14630	16 mm	≥ 5 mm	**Yes**

1) Report 3F023274 A, 2013-12-16
2) Report 3P08378-1, 2013-12-17.
3) Report 3P00597B, 2014-03-12.

The Swedish Cement and Concrete Research Institute (CBI)
Renovation

Performed by

Pavlos Ollandezos

Examined by

Peter Utgenannt

Appendices

1 Test results
2 Report 3F023274 A
3 Report 3P08378-1
4 Report 3F023141 D

This is a translation from the Swedish original document. In the event of any dispute as to the content of the document, the Swedish text shall take precedence.