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Test Report

Report No.:	**2200660 / 17052 / 1** **Date:** 2022-06-21
Client:	Penetron Products Pvt. Ltd. 111/2A, Kapparathampatti, Chinnappampatti Main Road Thoramangalam Village, Salem - 636 501, Tamil Nadu INDIA
Subject:	Product and system for the protection and repair on concrete structures with the trade name Seal Coat SF150
Task:	Resistance against chemicals (salt water) according to item no. 11 and no. 12 in Table 5, EN 1504-2:2004
Order:	Written order dated 2022-03-26 with the purchase order POO/0117/2122
Date of sampling:	—
Location of sampling:	No samples taken by OFI staff Samples provided by the client
Receipt of samples:	2022-04-12

1 SCOPE OF WORK

According to the order the samples provided were to be subjected to a test checking the resistance against chemicals (salt water) according to item no. 11 and no. 12 in Table 5 of the EN 1504-2:2004. The tested subject is a product and system for the protection and repair on concrete structures with the trade name Seal Coat SF150 with the classification 2.2. (C), which means it is a coating with the purpose of protection against ingress”

2 SCOPE OF APPLICATION

The results given in this Test Report have been obtained under the specific conditions of the individual tests. As a rule they are not the only criteria for assessing the product in question and its suitability for a specific purpose of application.

3 SAMPLE MATERIAL

The client submitted 2.5 kg each of the components “Seal Coat SF150 - Part A” (subsequently “Part A”) and “Seal Coat SF150 - Part B” (subsequently “Part B”) to OFI Technologie & Innovation GmbH.

Other documents submitted by our client:

- Safety data sheets of “Seal Coat SF150 - Part A” and “Seal Coat SF150 - Part B”
- Instructions for the mixing and application of the product Seal Coat SF150

4 TESTS AND RESULTS

Testing took place from 2022-04-12 to 2026-06-30.

The tests were carried out in the individual technical departments within the scope of competence of the authorized signatories according to the OFI QM manual.

4.1 Preparation of samples

Three plates out of the substrate XA2 according EN 206 with (150 x 100 x 25) mm were prepared in the labs of OFI and stored for a period of 7 days in standard climate (23 °C / 50 % r.h.) subsequently.

After the storage period of the substrate, Part A and Part B of Seal Coat SF150 were mixed and applied on the surface of the plates according the instructions for the mixing and application of the client. Before the immersion in salt water the samples were stored again for a period of 7 days in standard climate (23 °C / 50 % r.h.).

4.2 Chemical resistance against salt water

Two of the samples in section 4.1 were fully immersed in water with a salt content of 35 g/L at 20 °C for a duration of 30 days and without any external pressure.

4.2.1 Visual impact

After 30 days of storage the sample did show, when compared to the surface of the reference sample according ISO 2812-1:2017, visually no negative impact caused by salt water (Figure 1). Only slight changes in colours could have been noticed.

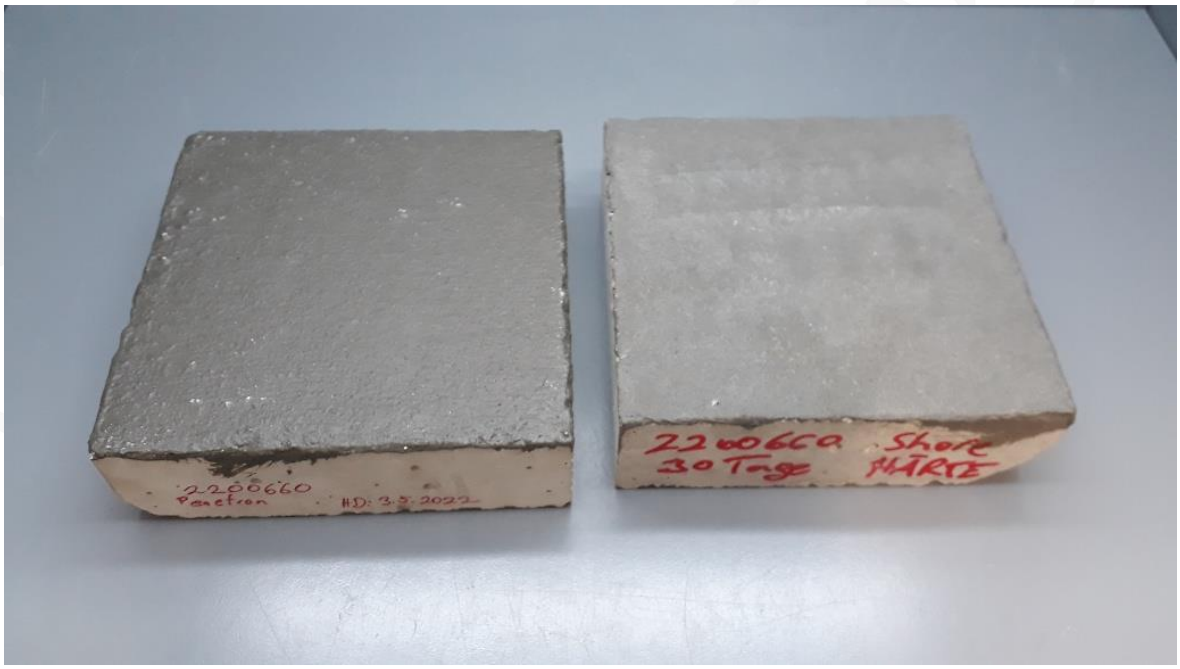

Figure 1: Surface of unstored reference sample (left) and sample after 30 days (right)

4.2.2 Change of Shore D Hardness

After 30 days of storage the sample the Shore D hardness according ISO 868:2033 was investigated and compared to the test result on the reference sample. With each sample 10 measurements were performed 25 h after the samples had been removed from salt water. The results are summarized in Table 1.

Table 1: Shore D hardness (Average)

Sample	Storage (d)	Shore D (-)	Change (%)
Seal Coat SF150	0	67.5	---
	30	60.0	11.1

Based on the result in Table 1 the product Seal Coat SF150 can be classified according to item no. 12 in Table 5 of the EN 1504-2:2004 as “Class II” with a decrease of Shore D hardness within 28 days of less than 50 %.

This Test Report No. **2200660 / 17052 / 1** comprises
5 sheets with 1 table(s), 1 figure(s) and 0 appendix(es).

Any test results relate only to the samples tested. Test Reports may be made available to third parties, either free of charge or against payment, if the full wording of the Test Report is given and if OFI is expressly named as the author. All tests applied are subject to a quality assurance program according to EN ISO/IEC 17025:2017.

The General Terms and Conditions of OFI Technologie & Innovation GmbH shall apply as amended. They are available for download on our website (www.ofi.at).

Patrick Vycudilik
Testing engineer

DI Udo Pappler
Director in charge

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