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TEST REPORT

REPORT NO : 2020CB0459	PAGE : 1 OF 2

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Applicant	: SIKA KIMIA SDN BHD Lot 689, Nilai Industrial Estate, 71800 Nilai Negeri Sembilan.
Manufacturer	: SIKA KIMIA SDN BHD
Product	: SikaTop®Seal-109 MY
Reference Standard / Method of Test	: BS EN 1542: 1999, Products and systems for the protection and repair of concrete structure-Test methods-Measurement of bond strength by pull off
Description of sample	: Two (2) pieces of concrete slab coated with SikaTop®Seal-109 MY (400 mm x 300 mm x 40 mm) were received for testing. Brand: SikaTop® Product Description: A two part cement based polymer modified waterproofing coating.
Date Received of Complete Application	: 07 July 2020
Job No.	: J20201430319
Description of Test Results	: The test results of the submitted test samples are described in Page 2 of this test report.
Issued Date	: 19 August 2020

Approved Signatory;

.....
(HANON NAZIR BIN MOHD BAKIR)
Senior Testing Executive

SIRIM QAS International Sdn. Bhd. CIVIL & CONSTRUCTION SECTION

.....
(RAJA NOR SIHA BINTI RAJA ABDUL HANAN)
Head
Civil & Construction Section
Testing Services Department

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TEST RESULTS:

Product : SikaTop®Seal-109 MY
Method of test : BS EN 1542: 1999,
Products and systems for the protection and repair of concrete structure-
Test methods-Measurement of bond strength by pull off
Date of casting : 22/6/2020
Date of testing : 20/7/2020 (28 days)

NO.	TYPE OF TEST METHODS	TEST RESULT
1.	Measurement of bond strength by Pull-Off using Portable Adhesion Tester between concrete substrate and SikaTop®Seal-109 MY	1) 0.82 N/mm² 2) 0.93 N/mm² 3) 0.76 N/mm² 4) 0.88 N/mm² 5) 0.78 N/mm² Mean : 0.83 ± 0.001 N/mm² <u>Mode of failure (Fracture pattern)</u> Adhesive failure between the SikaTop®Seal-109 MY and the substrate

Note:
1) Testing period – 20th July 2020 to 29th July 2020.
2) *Where the reported uncertainty is calculated using a coverage factor k=2, which gives a level of confidence of approximately 95%.*

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SIRIM QAS International Sdn. Bhd.
CIVIL & CONSTRUCTION SECTION

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1. A Test Report will be issued in respect of Testing Services conducted and shall relate only to the sample actually tested. SIRIM QAS International makes no warranty whatsoever and the Applicant shall not represent in any manner that any duplication or mass production of the Product is same as the sample actually tested or that SIRIM QAS International has tested any of the duplicated or mass-produced Product. When a statement of conformity to a specification or standard is applied, the Measurement Uncertainty of test has been considered.

2. The Test Report shall not be amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.

3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.

4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.

5. Customer (Applicant/Manufacture/Factory, etc.) is not permitted to use any SIRIM QAS International, SIRIM or other SIRIM's subsidiaries logo or words on packaging, sample's manual, technical specification, brochures/flyers or any other means without the prior written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International.

6. If such approval is obtained from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International, the Applicant may only include the phrase, "A sample of this product has been tested by SIRIM QAS International (Test Report No) ... (dated) …. (for what test) … (to which standard)" or such similar words which stress that only the Sample was actually tested. This phrase shall only be used for the purpose of product advertisement or product promotion (eg; brochures). For avoidance of doubt, the statement shall not be used on the sample and packaging of the sample.

7. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International may disclose the information pertaining to the Test Report for purposes of such investigation.

8. Further or in the alternative, it is strictly forbidden unless with prior written approval from the Chief Executive Officer of SIRIM QAS International, to represent in any manner whatsoever that SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries has endorsed, approved or validated the Product of the Applicant in any manner whatsoever.

9. In the event the Applicant is found in breach of this provision, SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries without prejudice to any other rights and remedies may take whatever action necessary including but not limited to:
   a) Informing and placing a notice in the media;
   b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
   c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
   d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
   e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.

10. SIRIM QAS International is committed in supporting an environmentally-friendly business practices by reducing paper consumption, therefore we do not issue any hard copy of Test Report to the Applicant. However, certified true copy(ies) of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee.

11. Issuance of Amendment Report due to the following reasons are chargeable to the Applicant :
    a) Changes in details of the Applicant name and/or address;
    b) Changes in details of the Manufacturer's name and/or address;
    c) Changes in details of the Factory location name and/or address;
    d) Changes in details of the model and/or type designation

12. However, issuance of Supplementary Report due to the following reasons are FOC :
    a) Misprints and typo errors;
    b) Missing technical information as agreed in PP1 form;
    c) Test data not reported;
    d) Mistake in reporting of test data

13. Corrections to report shall only be allowed if the date of issuance of the original report has not exceeded 6 months and shall be limited to maximum 3 times, after either case whichever occurs earlier, an Amendment or a Supplementary Report shall not be issued.