

Testing, Experimentation and Quality Control Laboratory

Main Laboratory Sassuolo S.r.l. - Via F.lli Setti, 7 - 42019 Scandiano - Reggio Emilia (Italy) Cod.Fisc. e P.IVA 03164360368
Tel: 0522 982603 Fax: 0522 852834 E-mail: info@mainlaboratorysassuolo.it Web: www.mainlaboratorysassuolo.it

TEST REPORT n. 2475/2022/I

CERAMIC TILES - GROUTS AND ADHESIVES

ISO 13007-4.1:2013

DETERMINATION OF FLEXURAL AND COMPRESSIVE STRENGTH

Date of report: 05/12/2022

Customer: **Litokol S.p.A.**

Via Giovanni Falcone, 13/1
42048 Rubiera (RE)

Requested on: 03/25/2022

Our ref.number: 32638

Execution place of tests: qualified external laboratory

Description of the sample: "Premixed cementitious tile sealant
marked: STYLE GROUT"

Sampling: carried out by the customer

Receipt date of samples: 03/28/2022

Execution date of tests: start: 03/28/2022 end: 05/11/2022

Test specification: ISO 13007-4.1:2013
Determination of flexural and compressive strength

Warnings: *This test report may not be reproduced in part without our written approval.*
The results reported only refer to the samples tested, as received, and are only valid
under the conditions in which the work was carried out.
The information enclosed in inverted commas was provided by the customer and the
laboratory accepts no liability for it.

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Normative references

ISO 13007-4:2013 - Ceramic tiles - Grouts and adhesives - Part 4: Test methods for grouts

Modality

Description of the samples

nr. 3 samples of dimensions 40 mm x 40 mm x 160 mm

Description of the test

The test was performed under standard conditions *.

Then the compression test was performed on the half-prisms resulting from the flexion test.

Maturation of specimens

27 d

Environmental conditions (*)

Temperature: (23 ± 2) °C

Relative humidity: (50 ± 5) %

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Results

Flexural strength - Expiry date 28 d

Sample [n.]	Side of square section "b" [mm]	Section area [mm ²]	Length between supports "L" [mm]	Weight [g]	Breaking load "F _f " [N]	Flexural strength "R _f " [N/mm ²]	Average flexural strength at 28 d "R _f " [N/mm ²]
1	40	1600	100	460,6	4020	9,42	9,1
2	40	1600	100	457,7	3810	8,93	
3	40	1600	100	464,7	3860	9,05	

Compressive strength - Expiry date 28 d

Sample [n.]	Dimensions [mm]	Surface area [mm ²]	Total load "F _c " [kN]	Unitary load "R _c " [N/mm ²]	Average flexural strength at 28 d "R _f " [N/mm ²]
1a	(40 x 40)	1600	59,44	37,15	37,1
1b	(40 x 40)	1600	58,30	36,44	
2a	(40 x 40)	1600	55,16	34,48	
2b	(40 x 40)	1600	61,37	38,36	
3a	(40 x 40)	1600	59,83	37,39	
3b	(40 x 40)	1600	61,64	38,53	

Note: The test was carried out externally in a qualified laboratory, as agreed with the customer.



The Director
Giulia Gaido

End of test report