

Norcros Adhesives
Harewood Street
Tunstall
Stoke-on-Trent
ST6 5JZ

Test Report
DD 4410/16/2013

Testing of Dispersions Adhesives

Order date: 20.06.2013

Entry no.: 13-0921

Subject matter: Testing from the dispersions adhesives "Tile to Shower White"
As "D2T"

Test specification: DIN EN 12004 – September 2012

Sample entry: 15.05.2013
The samples were delivered by a company employee and
Were processed in his presence.


Dresden, 10th September 2013
(Hag/Han)

Head of Department



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1. Test Requirements

- DIN EN 12004 (2012-09); Adhesives for tiles – Definitions and specifications
- DIN EN 1324 (2007-11); Adhesives for tiles – Determination of shear adhesion strength of dispersion adhesion
- DIN EN 1346 (2007-11); Adhesives for tiles – Determination of open time
- DIN EN 1308 (2007-11); Adhesives for tiles – Determination of slip

2. Preliminary Remark

During the probing all required testing methods were carried out in accordance with DIN 12004. The dispersion adhesive is instantly ready to use. Before processing, the sample was homogenized. The test specimens were prepared using the type 2 testing files P2. During the application of the adhesive with a 6-mm-toothed-spattle the consumption amounted to 4,88 kg/m². All results have been declared in accordance with respective norms and its evaluation methods and average determinations.

3. Results

3.1 Fundamental Characteristics

3.1.1 Initial shear adhesion strength, DIN EN 1324, 7.2

Sample no.	Initial shear adhesion strength [N/mm ²]
1	2.07
2	1.91
3	2.04
4	2.37
5	2.40
6	2.11
7	2.09
8	2.42
9	2.52
10	2.29
Average	2.22

Target ≥ 1.0 N/mm²

Result: Passed



3.1.2 Open time (20 min), DIN EN 1346

Sample no.	Adhesive strength [N/mm ²]	Fracture pattern
1	0.88	80% AF-T 20% CF-A
2	1.16	100% AF-T
3	0.91	100% AF-T
4	0.87	100% AF-T
5	1.02	100% AF-T
6	0.89	100% AF-T
7	1.05	85% AF-T 15% AF-S
Average	0.97	

Target: ≥ 0.5 N/mm²

Result Passed

3.1.3 Tensile adhesion strength after water aging, DIN EN 1324, 7.3

Sample no.	Shear adhesion strength after heat ageing [N/mm ²]
1	0.48
2	0.51
3	0.56
4	0.44
5	0.48
6	0.44
7	0.40
8	0.49
9	0.59
10	0.56
Average	0.50

Target: ≥ 0.5 N/mm²

Results: Passed



3.1.4 adhesion strength during increased temperature DIN EN 1324, 7.5

Sample no.	Shear adhesion strength after heat ageing [N/mm ²]
1	2.01
2	2.01
3	1.61
4	2.36
5	1.99
Average	2.00

Target: ≥ 1.0 N/mm² (D1)

Result: Passed

3.2 Special characteristics

3.3.1 Slip, DIN EN 1308

Sample no.	Slip [mm]	Average [mm]
1	1.86	5.65
2	8.15	
3	6.95	

Target: ≤ 0.5 mm

Result: Not Passed

4. Result

The tested dispersion adhesives “Tile to Shower White” do not fulfil the requirements of properties requested of dispersions complying with DIN EN 12004 decreased sliding.

Therefore categorization as class “D1” is legitimate

