

DIN EN 14891:2017-05 (E)

Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives - Requirements, test methods, assessment and verification of constancy of performance, classification and marking

Contents

Page

European foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Product characteristics	7
4.1 General	7
4.2 Release of dangerous substances	7
5 Testing, assessment and sampling methods	8
6 Assessment and verification of constancy of performance (AVCP)	8
6.1 General	8
6.2 Type testing	8
6.2.1 General	8
6.2.2 Test samples, testing and compliance criteria	9
6.2.3 Test reports	9
6.2.4 Shared other party results	9
6.3 Factory Production Control (FPC)	10
6.3.1 General	10
6.3.2 Requirements	10
6.3.3 Product specific requirements	13
6.3.4 Procedure for modifications	14
6.3.5 One-off products, pre-production products (e.g. prototypes) and products produced in very low quantity	14
7 Classification and designation	15
8 Marking and labelling	16
Annex A (normative) Testing, assessment and sampling methods	18
A.1 Sampling	18
A.2 Test conditions	18
A.3 Test materials	18
A.3.1 General	18
A.3.2 Ceramic tiles	18
A.3.3 Test substrate	18
A.3.3.1 Concrete slab	18
A.3.3.2 Other substrates (optional)	18
A.3.4 Ceramic tile adhesive	19
A.3.5 Sodium hypochlorite	19
A.4 Apparatus	19
A.4.1 Weight (Mass)	19
DIN EN 14891:2017-05 EN 14891:2017 (E) A.4.2 Pull head plates	19

A.4.3	Machine for pull testing	19
A.4.4	Air-circulating oven	19
A.4.5	Mould	19
A.4.6	Jig	21
A.4.7	Equipment for permeability test	22
A.4.8	Machine for tensile testing	23
A.5	Mixing of liquid-applied water impermeable products	23
A.6	Tensile adhesion tests	23
A.6.1	Preparation of test pieces	23
A.6.2	Initial tensile adhesion strength	24
A.6.3	Tensile adhesion strength after water contact	24
A.6.4	Alternative method for tensile adhesion strength after water contact	24
A.6.5	Tensile adhesion strength after heat ageing	25
A.6.6	Tensile adhesion strength after freeze-thaw cycle	25
A.6.7	Tensile adhesion strength after contact with chlorinated water	25
A.6.8	Alternative method for tensile adhesion strength after contact with chlorinated water	26
A.6.9	Tensile adhesion strength after contact with lime water	26
A.6.10	Evaluation and expression of the results	27
A.7	Water impermeability	27
A.8	Crack bridging ability	29
A.8.1	General	29
A.8.2	Crack bridging ability under standard conditions	30
A.8.3	Crack bridging ability at low temperature	30
A.9	Test report	30
Annex ZA (informative) Relationship of this European Standard with Regulation (EU) No.305/2011		32
ZA.1 Scope and relevant characteristics		32
ZA.2 System of Assessment and Verification of Constancy of Performance (AVCP)		33
ZA.3 Assignment of AVCP tasks		33
Bibliography		35