



DECLARATION OF PERFORMANCE

according Annex III of the Regulation (EU) No 305/2011

Silikal System B

Nr. SYS-B-001

1. Unique identification code of the product-type:
 - EN 1504-2: ZA.1d, ZA.1f und ZA.1g
 - EN 13813: SR – B2,0 – AR1 – IR4

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):
 - batch number: see packaging of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:
 - EN 1504-2
 - Surface protection products – Coating
 - Protection against ingress (1.3)
 - Physical resistance (5.1)
 - Resistance to chemicals (6.1)

 - EN 13813
 - Synthetic resin screed for internal uses

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):
 - SILIKAL GMBH
 - Ostring 23
 - D-63533 Mainhausen

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):
 - not relevant

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
 - EN 1504-2:*
 - System 2+ (for uses in buildings and civil engineering works)

 - EN 13813:*
 - System 4 (for internal uses)
 - System 4 (for internal uses subject to reaction to fire regulations)

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:
 - EN 1504-2, System 2+:*



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The notified body KIWA Polymer Institute GmbH, identification number 1119, performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control under system 2+ and issued:

Certificate of conformity of the factory production control

No.: 1119 – CPD – 0831a

EN 13813, System 4: -

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

not relevant

9. Declared performance

EN 1504-2:

The product is used in surface protection system: Silikal System B consisting of components:

SILIKAL R 51/52/ RU 727

SILIKAL R 61

SILIKAL 81

Table 1: Performance in this system

Essential characteristics	Performance	Harmonised Technical specification
Linear shrinkage	NPD	EN 1504-2:2004
Compressive strength	NPD	
Coefficient of thermal expansion	NPD	
Abrasion resistance ¹⁾	weight loss < 3000 mg	
Cross cut	NPD	
Permeability to CO ₂	s _D > 50 m	
Water vapour permeability	class III	
Capillary absorption and permeability to water	w < 0,1 kg/m ² x h ^{0,5}	
Thermal compatibility	NPD	
Resistance to thermal shock	NPD	
Chemical resistance	NPD	
Resistance to severe chemical attack	Reduction in hardness < 50 %	
Crack bridging ability	NPD	
Impact resistance	class I	
Adhesion strength by pull off test	≥ 2,0 (1,5) ²⁾ N/mm ²	



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Essential characteristics	Performance	Harmonised Technical specification
Reaction to fire	class E _{fl}	
Skid resistance	NPD	
Artificial weathering	NPD	
Antistatic behaviour	NPD	
Adhesion on wet concrete	NPD	
Release of dangerous substances	NPD	

²⁾ The value in brackets is the lowest accepted value of any reading

EN 13813:

Table 2: Performance according to EN 13813

Essential characteristic	Performance	Harmonised technical specification
Reaction to fire	E _{fl} ^{a)}	EN 13813:2002
Release of corrosive substances	SR	
Wasserdurchlässigkeit	NPD	
Wear resistance	≤ AR1	
Bond strength	≥ B2,0	
Impact resistance	≥ IR4	
Sound insulation	NPD	
Sound absorption	NPD	
Thermal resistance	NPD	
Chemical resistance	NPD	

a) According to Commission Decision 2010/85/EU of 9 February 2010 the product fulfils the reaction-to-fire performance class E/E_{fl} without further testing

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Stefan Grossmann
(Head of R&D Department)

Mainhausen, 1.07.2013

(Unterschrift)