

Declaration of Performance for SILIKAL® System C

SILIKAL® R 52, SILIKAL® R 62, SILIKAL® R 72

Nr. SYS-C-001

1. Unique identification code of 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 construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:
EN 1504-2
Surface protection product – coating
Protection against ingress ((1.3; ZA.1d)
Physical resistance (5.1; ZA.1f)
Resistance to chemicals (6.1; ZA.1g)
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
Germany
5. Where applicable, name and contact address of the authorized 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 application in buildings and civil engineering works)
EN 13813:
System 4 (for application in buildings)
7. In case of the declaration of performance concerning a construction product covered by a harmonized standard: EN 1504-2, System 2+:
Notified partner is KIWA Polymer Institut GmbH, Nr. 1119, which has approved the initial inspection and the factory-owned production control as well as ongoing control and evaluation according to system 2+ and following certificated:
Certificate of compliance for factory-owned production control:
Reg.-Nr: 1119–CPR–0831 from 16.05.2015

DECLARATION OF PERFORMANCE SILIKAL[®] SYSTEM C

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



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:

SILIKAL[®] System C is a surface protection system. It contains the following components:

SILIKAL[®] R 52

SILIKAL[®] R 62

SILIKAL[®] R 72

Table 1: Declared performance of SILIKAL[®] System C according to: EN 1504-2:

Essential characteristics	Performance	Harmonized technical specification
Linear shrinkage	NPD	
Compression strength	NPD	
Coefficient of thermal expansion	NPD	
Abrasion resistance ¹⁾	Weight loss < 3000 mg	
Cross cut	NPD	
Carbon-dioxide permeability	$s_D > 50 \text{ m}$	
Water vapor permeability	Class III	
Capillary water absorption and liquid water permeability	$w < 0,1 \text{ kg/m}^2 \times h^{0,5}$	
Thermal compatibility	NPD	
Resistance to thermal shock	NPD	
Chemical resistance ²⁾	NPD	EN 1504-2:2004
Resistance to severe chemical attack	Reduction in hardness < 50%	
Crack bridging ability	NPD	
Resistance to impact	Class I	
Adhesion strength by pull off test	$\geq 2,0 (1,5)^3 \text{ N/mm}^2$	
Reaction to fire	E_{fl}	
Skid resistance	NPD	
Artificial weathering	NPD	
Antistatic behavior	NPD	
Adhesion on wet concrete	NPD	
Release of dangerous substances	NPD	

¹⁾ Additionally the requirements according to EN 13813 have to be fulfilled.

²⁾ Please refer to list of chemical resistance in technical documentary.

³⁾ The value in brackets is the lowest accepted value if any reading.

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



EN 13813:

Table 2: Declared performance according to EN 13813

Essential characteristics	Performance	Harmonized technical specification
Reaction to fire	E _{fl} ^{a)}	EN 13813:2002
Release of corrosive substances	SR	
Water penetration	NPD	
Abrasion resistance	≤ AR1	
Bond strength	≥ B1,5	
Impact resistance	≥ IR4	
Sound insulation	NPD	
Sound absorption	NPD	
Thermal resistance	NPD	
Chemical substances	NPD	

^{a)} According to Commission Decision 2010/85/EU of 9 February 2010 of 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 conformity with the declared performance in point 9. The 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:

Dr. Peter Loh
(Head of Development)

A handwritten signature in blue ink that reads "Peter Loh". The signature is written in a cursive, flowing style.

(Signature)

Mainhausen, 02.02.2022