

Sikacrete[®]-401 Rapid

DECLARATION OF PERFORMANCE No. 70494

1	UNIQUE IDENTIFICATION CODE OF THE PRODUCT- TYPE:	70494
2	INTENDED USE/S	For uses in buildings and civil engineering works- Structural and non-structural repair products for concrete, used by applying mortar by hand, by recasting with concrete, by spraying concrete or mortar, by increasing cover to reinforcement with additional cementitious mortar or concrete and structural strengthening by adding mortar or concrete. For uses subject to reaction to fire regulations.
3	MANUFACTURER:	Sika Services AG Tüffenwies 16 8064 Zürich Switzerland
5	SYSTEM/S OF AVCP:	System 2+ System 3
6a	HARMONISED STANDARD:	EN 1504-3:2005
	Notified body/ies:	1180

7 DECLARED PERFORMANCE/S

Essential Characteristics	Performance	AVCP	Harmonised Technical Specification
Compressive strength	$\geq 45 \text{ MPa}$	System 2+	EN 1504-3:2005
Chloride ion content	$\leq 0,05 \%$	System 2+	
Adhesive bond	$\geq 2,0 \text{ MPa}$	System 2+	
Carbonation resistance	Pass	System 2+	
Elastic modulus	$\geq 20 \text{ GPa}$	System 2+	
Thermal compatibility – Part 1	$\geq 1,5 \text{ MPa}$	System 2+	
Coefficient of thermal expansion	$\sim 13.5 \times 10^{-6} \text{ m/m } ^\circ\text{C}$	System 2+	
Capillary absorption	$\leq 0,5 \text{ kg}\cdot\text{m}^{-2}\cdot\text{h}^{-0,5}$	System 2+	
Reaction to fire	Class A1	System 3	
Release of dangerous substances	NPD	System 2+	
Restrained shrinkage/expansion	NPD	System 2+	

8 APPROPRIATE TECHNICAL DOCUMENTATION AND/OR - SPECIFIC TECHNICAL DOCUMENTATION

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Name: Rob Doherty
Function: Senior Product Manager
At Welwyn Garden City
on 13 May 2025

Name: Martin Liska
Function: Head of R&D: Concrete and
Cementitious Systems
At Welwyn Garden City
on 13 May 2025



End of information as required by Regulation (EU) No 305/2011

Declaration of Performance

Sikacrete®-401 Rapid
70494
2025, ver. 2
212255



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Sika Services AG, Zurich, Switzerland

70494

Compressive strength	≥ 45 MPa
Chloride ion content	≤ 0,05 %
Adhesive bond	≥ 2,0 MPa
Carbonation resistance	Pass
Elastic modulus	≥ 20 GPa
Thermal compatibility – Part 1	≥ 1,5 MPa
Capillary absorption	≤ 0,5 kg·m ⁻² ·h ^{-0,5}
Reaction to fire	Class A1
Coefficient of thermal expansion	~ 13.5 x 10 ⁻⁶ m/m °C
Release of dangerous substances	NPD

EN 1504-3:2005

1180

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For uses subject to reaction to fire regulations.

<http://dop.sika.com>

ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LEGAL NOTE

Any information provided in this Declaration of Performance ("DoP"), including any descriptions and recommendations relating to the application and end-use of any Sika products ("Products"), are given in good faith based on Sika's current knowledge and experience of the Products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. Please note that the materials, substrates and actual site conditions may vary considerably, and therefore Sika makes no warranty for merchantability or fitness for a particular purpose and accepts no liability for the application and use of the Products, for any recommendations, or for any advice offered. Prior to using, the Product must be tested for its suitability for the intended application and purpose, and the most recent version of the Product Data Sheet must be consulted. Sika reserves the right to change the properties of its Products any time without prior notice. Any orders for Products or services provided by Sika are subject to Sika's current terms and conditions of sale.

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