

DECLARATION OF PERFORMANCE
according Annex III of the Regulation (EU) No 305/2011
amended by Commissions delegated Regulation (EU) No 574/2014

Reference number of the declaration
of performance: CI4565070

Unique identification code of the product-type: MC-BetoSolid SX

Intended uses: Structural bonding product for bonded mortar or concrete
Principle 4 – Structural bonding
Bonded mortar or concrete (4.4)

Surface protection products – Coating
Physical resistance (5.1)

Manufacturer: MC-Bauchemie Müller GmbH & Co. KG
Am Kruppwald 1-8
46238 Bottrop

System/s of AVCP: System 2+
(for uses in buildings and civil engineering works)

Harmonised standard: EN 1504-4:2004
EN 1504-2: 2004

Notified body/ies: Karlsruhe Institute of Technology (KIT)
0754-CPR-15-0412

Declared performances:

Table 1 and 3.2.: Performance according to EN 1504-4

Essential characteristics	Performance	Harmonised Technical specification
Bond/adhesion strength	Pass	EN 1504-4:2004
Shear strength	$\geq 6 \text{ N/mm}^2$	
Compressive strength	$\geq 30 \text{ N/mm}^2$	
Shrinkage/Expansion	$\leq 0,1 \%$	
Workability	45 min. at 20°C	
Sensitivity to water	Pass	
Elastic modulus	$\geq 2000 \text{ N/mm}^2$	
Coefficient of thermal expansion	$\leq 100 \cdot 10^{-6} \text{ per K}$	
Glass transition temperature	$\geq 40 \text{ }^\circ\text{C}$	
Reaction to fire	Class E ¹⁾	
Durability	Pass	
Dangerous substances	No	

¹⁾ Also possible A1, A2, B, C and D, whereby the last four classes in Germany for the time being need an approval from DIBt. The possible class F is not admitted in Germany. This class means in Germany „readily flammable“. In other European MS this class means „no performance determined“ (NPD)“ and is admitted with consideration of the valid regulation in the respective MS.

Table 1: Performance according to EN 1504-2

Essential characteristics	Performance	Harmonised Technical specification
Abrasion resistance	weight loss < 3000 mg	EN 1504-2:2004
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \times \text{h}^{0,5}$	
Impact resistance	class I ($\geq 4 \text{ Nm}$)	
Adhesion strength by pull off test	$\geq 2,0 (1,5) \text{ }^1 \text{ N/mm}^2$	

¹⁾ The value in brackets is the lowest accepted value of any reading


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:

John van Diemen
Head of Chemical Research and Quality Assurance

Bottrop, 06.12.2019

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(signature)



Annex

According to Art. 6 (5) of the Regulation (EU) No. 305/2011 a Safety Data sheet according Regulation (EU) No. 1907/2006 (REACH), Annex II is annexed to this Declaration of Performance.