# Declaration of Performance

BE SURE. BUILD SURE.

## MC-DUR 111 eco

Reference number of the Declaration of Performance: IN5189732

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| 1. | Unique ID code of the product type | MC-DUR 111 eco |
| 2. | Application(s) | |
| 3. | Manufacturer | MC-Bauchemie Müller GmbH & Co. KG<br>Am Kruppwald 1-8<br>46238 Bottrop / Germany |
| 4. | Authorized representative | - |
| 5. | System of AVCP | System 2+ (for uses in buildings and civil engineering works) |
| 6. | Harmonised standard | EN 1504-2: 2004 |
| 7. | Notified body | Institut für Massivbau und Baustofftechnologie<br>Universität Karlsruhe (TH)<br>ID code 0754 |

8. Declared performances

| Essential characteristic | Performance | harmonised technical specification |
|---|---|---|
| Linear shrinkage | ≤ 0,3% | EN 1504-2: 2004 |
| Coefficient of thermal expansion | Rigid systems for outdoor use: αT ≤ 30 × 106 K1 | |
| Wear resistance | < 3000 mg | |
| Cross-cut test to determine adhesive strength | ≤ GT2 | |
| CO2 permeability | sD > 50 m | |
| Water vapour permeability | Class I sD < 5 m Class II 5 m ≤ sD ≤ 50 m Class III sD > 50 m | |
| Capillary water absorption | < 0,1 kg/m² x $h^{0,5}$ | |
| Freeze-thaw cycling with de-icing salt attack | No blisters, no cracks, no spalling | |
| Ageing: 7 days at 70 °C | Rigid systems without traffic load: ≥ 1.0 (0.7) | |
| Resistance to thermal shock | Rigid systems with traffic load: ≥ 2.0 (1.5) | |
| Resistance to chemicals | No visible defects | |
| Resistance to strong chemical attack | Reduction in hardness of less than 50% | |
| Impact strength | class I: ≥ 4 Nm | |
| Tear-off test to determine adhesive strength | ≥ 1.5 (1.0) N/mm² | |
| Fire behaviour | class $B_{fl}$ –s1 | |
| Hazardous substances | EN 1504-2, Pt. 5.3 | |

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 (amended by Commissions delegated Regulation (EU) No 574/2014), under the soleresponsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

van Diemen
Head of research and development and quality control

Bottrop, 19.11.2021
(place and date of issue)

(Unterschrift)

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| 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 attached to this Declaration of Performance. |