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European Technical Assessment Body
for construction products



European Technical Assessment

ETA-25/0294
of 23 January 2026

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

Betofill M

Product family to which the construction product belongs

Calcium carbonate filler aggregate with additional characteristics

Manufacturer

Rheinkalk GmbH
Am Kalkstein 1
42489 Wülfrath
GERMANY

Manufacturing plant

Rheinkalk GmbH
Werk Messinghausen
Warburger Str. 23
59929 Brilon

This European Technical Assessment contains

4 pages which form an integral part of this assessment

This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) No 2024/3110, on the basis of

EAD 260048-00-0301

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Specific part

1 Technical description of the product

The calcium carbonate filler aggregate with additional characteristics "Betofil M" is a filler aggregate obtained by processing (grinding) natural calcium carbonate for use in concrete. The calcium carbonate filler aggregates possess the following additional characteristics according to EN 197-1, Clause 5.2.6 for limestone (LL):

- CaCO_3 content at least 75 % by mass,
- content of fines ≤ 1.20 g/100 g and
- total organic content (TOC) ≤ 0.20 % by mass.

Furthermore, the chloride content complies with EN 197-1, Clause 7.3:

- chloride content ≤ 0.10 % by mass.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The calcium carbonate filler aggregate "Betofil M" is a type I addition for concrete conforming to European standard EN 206, i.e. concrete for structures cast in situ, precast structures, and structural precast products for buildings and civil engineering structures. The concrete can be mixed on site, ready-mixed or produced in a plant for precast concrete products. The calcium carbonate filler aggregate "Betofil M" is also intended to be used for self-compacting concrete (SCC).

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of concrete incorporating the calcium carbonate filler aggregate "Betofil M" of at least 50 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

Table 1 Mechanical resistance and stability (BWR 1)

Essential characteristic	Performance	
	Sieve [mm]	Percentage passing by mass
Particle size distribution	2	100 (100)
	0.125	100 (85-100)
	0.063	86 (70-100)
Specific surface (Blaine)	4420 cm ² /g	
Particle density	2.72 g/cm ³	
CaCO ₃ content	96.8 % by mass (≥ 75 % by mass)	
Content of fines (Clay content)	0.17 g/100g (≤ 1.20 g/100 g)	
Total organic content (TOC)	< 0.02 % by mass (≤ 0.20 % by mass)	
MgCO ₃ content	2.0 % by mass	
Chloride content (Cl ⁻)	0.01 % by mass (≤ 0.10 % by mass)	
Sulfate content (SO ₃)	AS _{0.2}	
Total content of sulfur	Passed (≤ 1.0 % by mass)	
Constituents which alter the rate of setting and hardening of concrete	Passed	
Initial setting time	No performance assessed	
Soundness	No performance assessed	

Table 2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content, emission and/or release of dangerous substances	No performance assessed

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 260048-00-0301 the applicable European legal act is: 1999/469/EC(EU).

The system to be applied is: 2+

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 23 January 2026 by Deutsches Institut für Bautechnik

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