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European Technical Assessment Body  
for construction products



## European Technical Assessment

ETA-20/0233  
of 17 June 2024

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

KSM-Go

Product family to which the construction product belongs

Calcium carbonate filler aggregate with additional characteristics

Manufacturer

GODEL-BETON GmbH  
Glemsgaustraße 95A  
70499 Stuttgart  
DEUTSCHLAND

Manufacturing plant

Rombold & Gfröhler GmbH & Co. KG  
Rittweg 1  
71254 Ditzingen  
Deutschland

This European Technical Assessment contains

5 pages which form an integral part of this assessment

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

EAD 260048-00-0301

This version replaces

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## Specific Part

### 1 Technical description of the product

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

- content of fines  $\leq 1.20$  g/100 g and
- total organic content (TOC)  $\leq 0.20$  % by mass.

Deviating from EN 197-1, Clause 5.2.6, for limestone (LL), the calcium carbonate filler aggregate with additional characteristics "KSM-Go" possesses the following characteristics:

- $\text{CaCO}_3$  content at least 70 % by mass and
- carbonate content ( $\text{CaCO}_3 + \text{MgCO}_3$ ) at least 75 % by mass.

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

- chloride content  $\leq 0.10$  % by mass.

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

The calcium carbonate filler aggregate "KSM-Go" 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 is also intended to be used for self-compacting concrete (SCC).

The calcium carbonate filler aggregate "KSM-Go" is also a specific addition that is intended to be used in combination with a specific cement according to the principles of the Equivalent Concrete Performance Concept (ECPC, see EN 206, 5.2.5.3). According to EN 206, clause 5.2.5.1 (2) type I additions may be taken into account in the concrete composition with respect to the cement content and the water/cement ratio if the suitability has been established in provisions valid in the place of use.

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 "KSM-Go" 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	91 (85-100)
	0,063	74 (70-100)
Specific surface (Blaine)	3430 cm <sup>2</sup> /g	
Particle density	2.75 g/cm <sup>3</sup>	
CaCO <sub>3</sub> content	78 % by mass <sup>1</sup> (≥ 70 % by mass)	
Content of fines (Clay content)	0.38 g/100g (≤ 1.20 g/100 g)	
Total organic content (TOC)	0.15 % by mass (≤ 0.20 % by mass)	
MgCO <sub>3</sub> content	8 % by mass <sup>1</sup>	
Chloride content (Cl <sup>-</sup> )	0.005 % by mass (≤ 0.10 % by mass)	
Sulfate content (SO <sub>3</sub> )	AS <sub>0,2</sub>	
Total content of sulfur	Passed (≤ 1.0 % by mass)	
Constituents which alter the rate of setting and hardening of concrete	Passed	
Initial setting time	Control Mix: 155 min Test mix: 150/155/140/160 min	
Soundness	0.4 mm (≤ 10 mm)	
<sup>1</sup> with a carbonate content (CaCO <sub>3</sub> + MgCO <sub>3</sub> ) of individual value pairs ≥ 75 % by mass		

**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 17 June 2024 by Deutsches Institut für Bautechnik

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Head of Section

*beglaubigt:*  
Bahlmann