



Betocarb[®]

Selected GCC for grouts,
mortars and concretes



THINKING OF TOMORROW

Betocarb®

The family of selected GCC to support your innovation

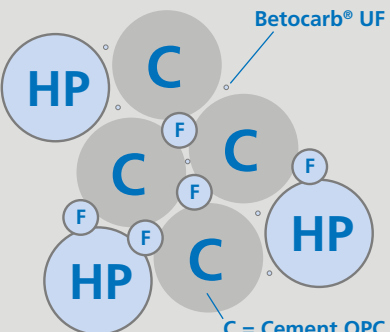
New mineral addition

Due to environmental reasons, the demand for technical Ground Calcium Carbonate to formulate ecological mortar & concrete is rapidly growing. The Betocarb® series provide a high purity Calcium Carbonate combined with a range of particles to enhance the packing and rheology behavior of innovative cement based products. Offering, a new and sustainable mineral addition to support the growth of infrastructure development resulting in an enormous demand for cement and supplementary cementitious materials.

Products	Blue value (g/kg)	d50% (µm)	Surface area (m ² /g)
Betocarb®	< 10	5-30	
Betocarb® HP	< 3	5-15	> 0.3
Betocarb® F	< 3	3	> 3
Betocarb® UF	< 3	1	> 8

Highlights

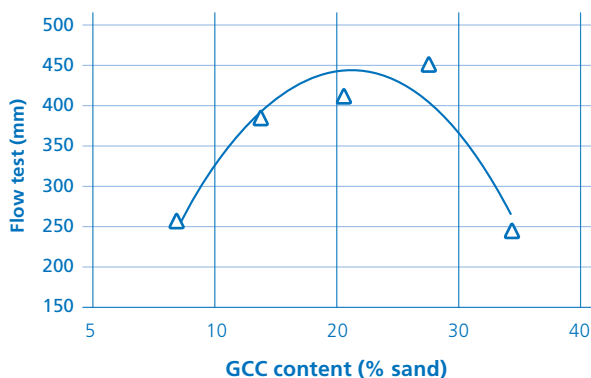
- *Natural and sustainable product*
- *High compatibility with chemicals*
- *High purity*
- *Controlled grading*



Selected Products	Function
Betocarb® HP	Mineral Plasticizer® to enhance the powder content and stability of fluid, self leveling screed and SCC
Betocarb® F	Fine Ground Calcium Carbonate to improve the fine particle packing and early age strength
Betocarb® UF	Ultra Fine GCC acting as a mineral accelerator (nucleation sites, high solubility)

Stability & packing improvement according to LGsystem®

Betocarb® HP contribution



Cement based applications

Self leveling screed



SLM – density 2.2, Compressive strength 25 MPa	Parts by weight (g)
Portland cement	160
Betocarb® HP	110
Sands	620
Admixtures	10
Water (on demand)	100
Total	1000

Expected benefits

- *Easy paste content optimization*
- *Enhancement of particle packing & stability*
- *Increasing flowability & workability*
- *Reduction of bleeding & shrinkage*
- *Better esthetics & colors*
- *Contribution to lower CO₂ emissions*

Self consolidating concrete

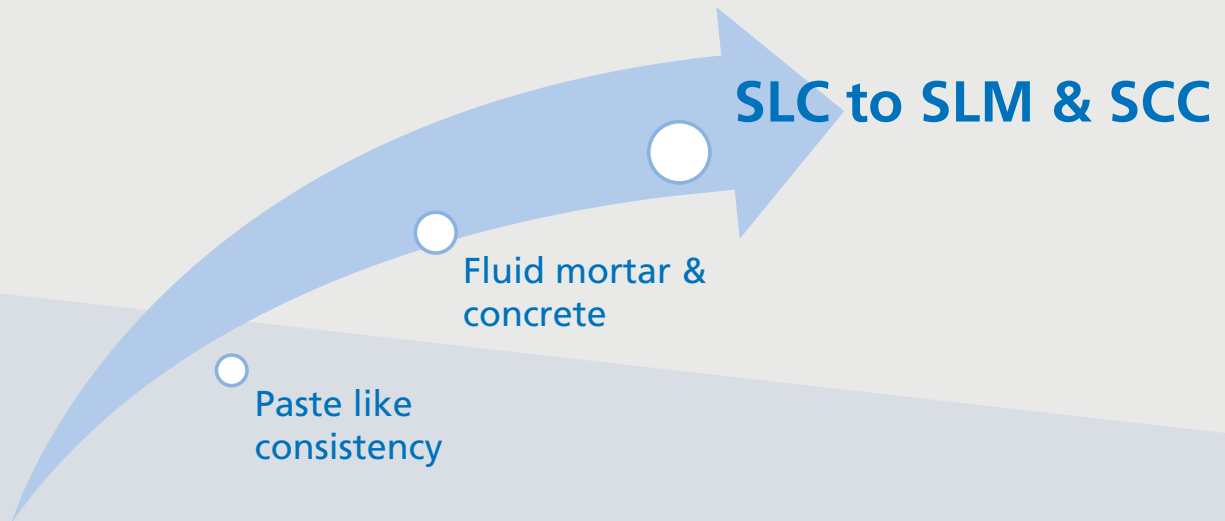


SCC 0/16 mm Compressive strength 30 MPa	Parts by weight (g)
Portland cement	135
Betocarb® HP	80
Sand	340
Coarse aggregates	350
Admixtures	2
Water (on demand)	93
Total	1000

Applications

- *Fluid mortar and concrete*
- *Self Compacting Concrete (SCC)*
- *Self Leveling Mortars (SLM)*
- *Self Leveling Compound (SLC)*
- *High Performance Concrete (HPC)*
- *Ultra High Performance Concrete (UHPC)*
- *Cementitious grouting mortars*

*Betocarb® - the family of selected
Ground Calcium Carbonate to support
your innovations and developments*



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OMYA PIGMENTS**

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Source: Omya International (2018/12) EN