



Betocarb[®]

Selected GCC for Grouts,
Mortars and Concretes



THINKING OF TOMORROW

Betocarb®

THE FAMILY OF SELECTED GCC TO SUPPORT YOUR INNOVATION

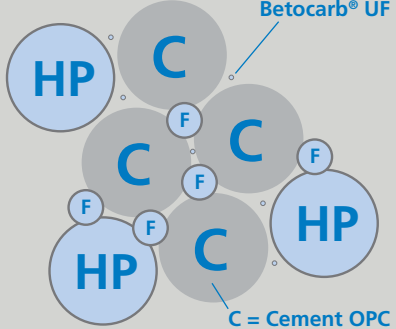
New mineral addition

Due to environmental reasons, the demand for technical Ground Calcium Carbonate to formulate ecological mortar and 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 (m²/g)
Betocarb®	<10	5-30	
Betocarb® HP	<3	5-15	>0.3
Betocarb® F	<3	3	>3
Betocarb® UF	<3	1	>8

Highlights

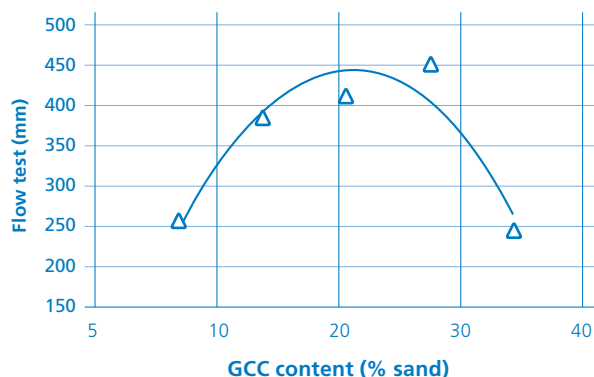
- *Natural and sustainable product*
- *High compatibility with chemicals*
- *High purity*
- *Controlled grading*



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	Ultrafine 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

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

Omya Construction

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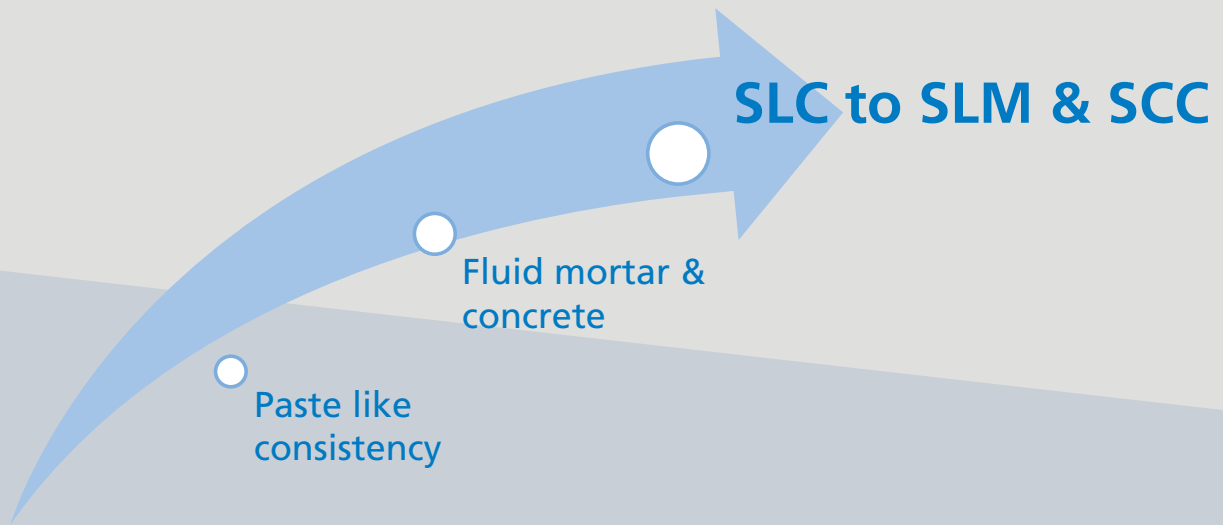


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*Betocarb[®] - the family of selected
Ground Calcium Carbonate to support
your innovations and developments*



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