



# Durable Connections

Performance. Quality. Expertise.



Grouts and Mortars



## BETEC values and applications

More than 40 years of research and expertise make BETEC® your trusted partner for high performance grouts.

Specifically engineered towards the highest quality and performance criteria, BETEC grouts realize durable connections in the most safe, precise and productive way possible, all year round.

### BETEC grouts values :

- Solid, reliable and consistent full year performance & application.
- Fast, easy and cost effective installation by pumping or pouring.
- Reduced down time and fast completion of the project.
- Maximum durability for a long-term maintenance free construction.

BETEC grouts have a proven track record of consistent high quality and performance in technically demanding applications.

### BETEC grouts applications:

- Assembly and joint filling of precast structures.
- Grouting of bridge bearings and bridge support structures.
- High precision grouting of machinery and industrial equipment.
- Wind turbine assembly and foundation grouting.
- Rail anchoring and underfilling in industry and MRT segments.
- Grouting annular joints over long distance in pipe line renovations.
- Anchor grouting in underground constructions.






## BETEC grouting solutions

BETEC offers a main portfolio of high performance grouts with normal and fast setting properties. The range offers usability and a consistent high quality, supported by multiple certification levels.

### BETEC grouts benefits:

- High initial and final strength development.
- Exceptional rheology, fast and high flow properties, saving valuable application time.
- Excellent load bearing surface for long-term load transfer and durability.
- Long open time and stable applicability.
- Self compacting and non-shrink properties.

Product	Max. Grain Size (mm)	Application Thickness (mm)	1h Strength (MPa)	2h Strength (MPa)	24h Strength (MPa)	Strength Class	Open Time (min)	Certification
<b>Normal Setting Grouts:</b>								
BETEC 110	1	5-40	-	-	≥ 40	C60/75	≥ 60	CE 
BETEC 140	4	20-160						
BETEC 180	8	≥30						
BETEC 516	16	≥60						
BETEC 240	5	≥25	-	-	≥ 40	C80/95	≥ 60	CE 
<b>Fast Setting Grouts:</b>								
BETEC 820	2	≥10	-	≥ 10	≥ 20	C50/60	≥ 30	CE 
BETEC 850	5	≥25						
<b>Very Fast Setting Grouts:</b>								
BETEC 801	1	5-30	≥ 5	≥ 20	≥ 30	C50/60	≥ 15	CE
BETEC 804	4	20-120						
BETEC 808	8	≥30						
BETEC 816	16	≥60						



## BETEC special solutions

### BETEC joint fillers

BETEC offers a selection of thixotropic mortars specifically designed for efficient joint filling and structural connection of precast structures in all conditions without formwork.

Product	Max. Grain Size (mm)	Application Thickness (mm)	24h Strength (MPa)	Strength Class	Open Time (min)	Certification
BETEC 192	1	5-70	25	C35/45	≥ 15	CE
BETEC 193	0.5		40	C55/67		

### BETEC special engineered solutions

Collaboration with customers, substantial technical experience, coupled with in-house research and development capabilities, allowed BETEC to develop solutions for specific engineering challenges. These special solutions are characterized by unique properties to meet our customer's needs in technically demanding applications.

Product	Description
BETEC 2500	High performance grout with very high strength class C100/115 and tested fatigue resistance according Model Code 90, Model Code 2010 and Eurocode 2 part 2 (2010) for structural grouting of wind turbine foundations and underfilling of heavy machine and bridge beds.
BETEC R-800.5	Ultra fast setting performance grout for manhole leveling where a very fast initial strength development of >5MPa after 30' allows reduced downtime and fast reinstatement of the road for traffic.
BETEC 200	Cement based injection grout with high-early strength development for filling voids under floor slabs, cracks in concrete, anchoring, rock and soil stabilization.
BETEC Lining Grout	High performance grout with ultra high flowability and very long open time (90min) for sealing and grouting annular joints over long distance (>50m) in tunneling and sewer rehabilitation.



## Concrete repair & waterproofing

Based on BETEC and OMNITEK® repair mortars renowned for their performance and applicability, as well as AQUATEK® coatings suitable for interior and exterior waterproofing applications, GCP Applied Technologies developed a complete CE system, certified according EN 1504, for structural and non-structural concrete repair and waterproofing of all buildings and structures.

Application Field	Product	Description
Re-alkalinisation of carbonated concrete	OMNITEK Realk Liquid	Surface applied impregnation liquid for re-alkalinisation of carbonated concrete.
Corrosion protection and bond bridge	OMNITEK CPC	1-component cement based corrosion protection primer for reinforcement steel.
Manual applied concrete repair with thixotropic mortars	BETEC 310 & 340	General cement based repair and reprofiling mortars.
	BETEC 322	Fiber reinforced repair mortar with improved applicability for layer thickness of 10-25mm.
	OMNITEK RM Fiber	Fiber reinforced, sulphate resistant and very high strength repair mortar for layer thickness of 10-50mm.
	BETEC 343	Fast setting, high early strength repair mortar suitable for fast repairs.
Recasting concrete	OMNITEK Microconcrete 140 & 180	Flowable repair mortar and concrete with high strength and self-compacting properties, ideally for recasting concrete.
Spray applied concrete repair	BETEC NSM 1, 2 & 4	Fiber reinforced spray mortars with maximum applicability by wet spraying application.
Anchoring of reinforcement bars	OMNITEK Grout 5000	High flowing mortar for anchoring of reinforcement bars.
Surface leveling & cosmetic finishing	OMNITEK Deco	High strength leveling mortar.
	BETEC 302	Fast setting leveling mortar.
	BETEC 300	Scratch coat, pore filler and cosmetic surface finishing mortar.
Carbonatation Protection	OMNITEK Paint EC	Anti-carbonatation and surface protection paint.
Waterproofing	AQUATEK Plug / Plug XF	Fast or very fast setting plugging mortars for stopping active water infiltrations.
	AQUATEK Impercem	Rigid waterproofing coating.
	AQUATEK Impercem 1OHB	Rigid high build waterproofing mortar.
	AQUATEK Super XA	Crystalline waterproofing coating.
	AQUATEK Elastic 2C	Flexible, crack-bridging waterproofing and ingress protection coating with anti-carbonatation resistance.



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**gcp** applied technologies