

BETEC[®] 200

Cement based injection grout

Product Description

BETEC[®]200 is a custom engineered cement based injection grout with high early strength development for filling voids under floor slabs, cracks and honeycombs in concrete, anchoring, rock and soil stabilization.

Advantages

- Extended open times and exceptional soft flowing rheology for a fast, easy and cost effective application by injection.
- Very high initial and final strength development, for fast and long-lasting load bearing capacity.
- Self compacting and volume stable for a complete and durable filling of cavities.
- CE performance declaration according to EN 1504-6.

Field of Application

BETEC[®]200 is specifically engineered for:

- Filling voids under floor slabs.
- Filling cracks and honeycombs in concrete.
- Anchoring reinforcement bars, ground and rock anchors.
- Stabilization of rock and loose soil.

Certification

- CE performance declaration according to EN 1504-6.

Product Properties

Technical Data/Properties^(*)

BETEC® 200		
Properties	Unit	Value*
Grain size	[mm]	<0.15
Consistency	[-]	Soft, high flowing
Maximum water quantity	[l /20 kg]	6.0
Open time	[min]	≈ 60
Application temperature (Powder, water and environment)	[°C]	+5 to +30
Fresh mortar density	[kg/dm ³]	≈ 2.0
Yield (25kg bags)	[dm ³]	≈ 12
Calculation quantity	[kg/m ³]	1620
Strength development	[-]	Fast
Compressive strength (**)	[N/mm ²]	
- 24 hours		≈ 55
- 7 days		≈ 80
- 28 days		≈ 90
Strength class	[-]	C 60/75
Exposure classes (***)	[-]	X0, XC1-XC4, XD1-XD3, XS1-XS3, XA1-XA2, XF1-XF3
Moisture classes (***)	[-]	WO, WF, WA
Shelf life	12 Months	
	Stored under cover, clear of the ground, protected from all sources of moisture and frost.	
Packaging	Bags of 20 kg with plastic liner. 40 bags per pallet (800kg)	
Appearance	Grey	

(*)Typical values in production control. All tests were executed under a conditioned temperature of 21 °C and 65% RH.

(**) Compressive strengths measurements based on prisms of 4x4x16cm.

(***) According to EN 206-1:2001 in combination with DIN 1045-2.

Application

1. Preparation of Substrate

- Substrate preparation has to be according EN 1504-10 part 7.
- The substrate has to be free from dirt, grease, laitance, loose concrete, loose particles or layers which could adversely affect adhesion.
- Remove all damaged concrete and prepare substrate by sand or grid blasting, high pressure water jetting, or other methods until base concrete is exposed, offering sufficient roughness (bond) and open pores.
- The substrate must be pre-wetted with clean water until saturated. The substrate should be damp, but without free standing water.
- The substrate must be frost-free.

2. Mixing

- The product has to be mixed using a suitable forced action mixer (400-600rpm). The mixing head must be completely immersed in the powder.
- Add 4/5 of the required quantity of water into the mixer and mix for 2 minutes. Add the remaining quantity of water. The water content can be varied to obtain the desired consistency. Never use more than the maximum water quantity. Mix for an additional 2 minutes until a lump-free, homogeneous mixture is obtained.
- The mixing time depends on the type of mixer. 4 minutes is the minimum.
- Once the grout is ready mixed, apply immediately. Do not prepare more material than can be used within the open time of the material.
- Keep the material in motion during application with a low speed mixer to prevent segregation and maintain open time.

3. Application

- The grout is injected in one continuous application using a pump or injection equipment suitable for grouts, such as a screw or membrane pump.
- If necessary, a dense and non-absorbent formwork is to be used.
- Do not vibrate.

4. Curing

- After treatment has to be according EN 13610 in combination with DIN EN 1045-3.
- In warm or windy conditions protect the applied material from dehydration by mist-spraying with clean water or protective tarpaulins until the initial set has taken place.
- In cold conditions cover with insulated tarpaulin, polystyrene or other insulating material. Protect surfaces against frost and rain until final set has taken place.
- In cold, humid or unventilated areas it can be necessary to allow for a longer curing period, or to introduce forced air movement to avoid condensation. Never use dehumidifiers during the
- curing period or within 28 days after application.
- Formwork should not be removed for at least 48hours.

- The after-treatment should be at least 5 days.
- The after-treatment should take place as soon as possible, at the latest when the material surface starts to set.
- As an alternative to the conventional treatment methods, suitable curing agents can be used to prevent rapid water loss.

5. Cleaning and maintenance

- Mixing and application equipment should be cleaned immediately with clean water. Hardened material needs to be removed mechanically.

6. Special remarks

- Cementitious materials can lead to incompatibilities under certain conditions in combination with non-ferrous metals (such as aluminium, copper, zinc).
- Low temperatures reduce flow and delay the early strength development. High temperatures accelerate the strength development and decrease the open time of the material.
- Depending on geometry and application thickness, reinforcement steel can be necessary.

Health & Safety

BETEC[®]200 is a product based on cement and can therefore cause burns to skin and eyes, which should be protected during use. Wear gloves and protective eye shields. Wearing a dust mask is advised. Treat splashes to eyes and skin immediately with clean water. Consult a doctor when irritation continues. If accidentally ingested, drink water and consult a doctor. Users must comply with all risk and safety phrases. MSDS's can be obtained from GCP Applied Technologies or from our website. GISCODE ZP1.

CE Certificate



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