



TECHNICAL DATA SHEET

GROUT 1000

(HIGH PERFORMANCE NON SHRINK PRECISION GROUT)

PRODUCT DESCRIPTION

BOTICA GROUT 1000 is a fine precision non shrink, high performance grout with extended working time.

STANDARD APPROVAL

Approved by ITC of Cambodia 2009.

PHYSICAL DATA

Appearance	Grey powder
Bulk Density	Approx. 1.56-1.60 kg/litre
Yield	Approx. 74-78 x 25 kg/bags/m ³ of grout depending on water content
Bond Strength to Concrete	> 2 N/mm ² at 7 days > 3 N/mm ² at 28 days
Drying Shrinkage	< 500 micro strain
23 ^o C C/RH 50% ASTM	at 28 days
Resistivity	< 12,000 ohm cm at 28 days
-Expansion of up to 1% or greater in unset material according to ASTM C827. -Drying shrinkage is compensated for complying with the requirements of ASTM 1107-91. 1-Initial Set - 2.3-3.4 hours 2-Final Set - 4-5.6 hours	

RECOMMENDED USES:

BOTICA GROUT 1000 uses for the installation of anchor bolts, heavy machinery base-plates, column sole plates, bridge bearings and all areas requiring precision grouting.

Advantages include:-

- Repair work and cavity filling.
- Flowable and self levelling.
- Able to fill intricate voids.
- Ready to use.
- High strength.
- Good dimensional stability.
- No bleeding or segregation.
- Good expansion.
- Compensates for shrinkage in both plastic and hardened state.

Disclaimer. All representations and recommendations set forth are given in good faith and the best of our knowledge. However due to varying conditions and applications the buyer shall conduct its own tests of this product before use. Under no circumstances will the manufacturer be liable for any loss or damages caused by incorrect usage. The sale of this product shall be on terms and conditions set forth on BOTICA's order acknowledgement

APPROXIMATE FLOW DISTANCES AT 23OC

Grout water Content	Approx. Flow distance in cm.		
	Gap Depth mm.	Head Height 10 cm.	Head Height 25cm.
15% by weight of Grout	10	40 cm	140 cm
	20	100 cm	270 cm
	30	160 cm	>310 cm
	40	240 cm	>310 cm
16% by weight of Grout	10	100 cm	270 cm
	20	200 cm	>320 cm
	30	>300 cm	>320 cm
	40	>300 cm	>320 cm

Flow distance will be effected by surface conditions, temperature, height of head and mixing time.

SURFACE PREPARATION

All surfaces must be clean, sound and free from oil, grease, laitance and loose particles. Metal surfaces should also be clean & free from rust, oil & grease.

APPLICATION METHODS

Ensure the substrate is correctly prepared. No contamination and saturated with water at least 3 - 4 hours prior to pouring the grout. No free water should be left. During application ensure air entrained into the grout is able to escape through relief holes. Maintain continuous head when base-plate grouting. Mortar flow should not be interrupted. Formwork should not allow grout loss.

Ensure there is no water standing in bolt holes. If possible grout anchor bolts first then the mortar bed in a second operation. The distance between anchor bolt and substrate should be at least 3 x max. diameter of mortar aggregates approx. 10 mm. A cable or chain may be used to make sure that all cavities are filled.

SUBSTRATE TYPES

Bonds well to:

- Concrete
- Cement screed backings
- Cement Blocks

When mixed with Botica Latex, bonds well to:

- Existing ceramic tiled floors.
 - Well bonded vinyl flooring.
 - Gypsum wallboard.
 - Hydroment Ultraset.
 - Cutback Adhesive residue.
-

Disclaimer. All representations and recommendations set forth are given in good faith and the best of our knowledge. However due to varying conditions and applications the buyer shall conduct its own tests of this product before use. Under no circumstances will the manufacturer be liable for any loss or damages caused by incorrect usage. The sale of this product shall be on terms and conditions set forth on BOTICA's order acknowledgement

PACKAGING

BOTICA GROUT : 25Kg/Bag

CONDITION DURING APPLICATION

Mixing with water and machine 2-3 minutes before apply under temperature from 25°C to 35°C. The temperature should be measured in the vicinity of the substrate.

STORAGE AND SHELF LIFE

Please store with dry place and should be with temperature 20°C to 35°C, in an elevated condition.

MIXING

BOTICA GROUT 1000 should be mixed using a suitable mixer. For flowable consistency use a slow speed <400 R.P.M. hand drill and paddle. For large works use a high shear vane grout mixer. Drum mixers may not mix sufficiently.

Powder should be added to the pregauged clean water. For rate of 8-10 seconds approx. 15-16% of water by weight of BOTICA GROUT 1000 should be used. Do not add more than the maximum water content. Mix for up to 5 minutes.

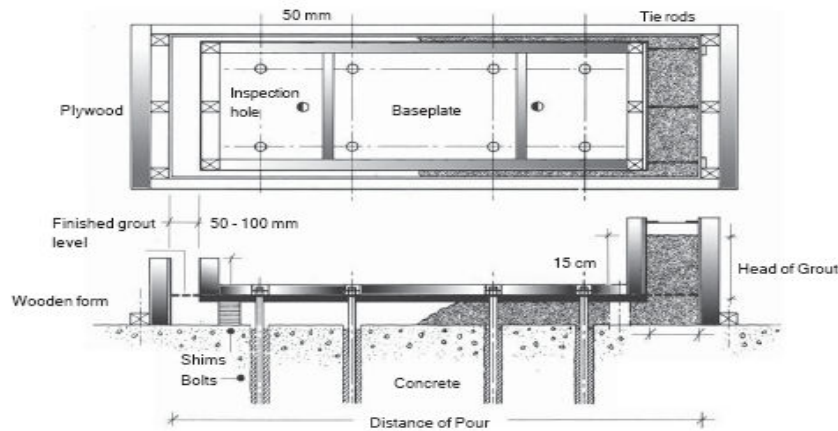
HEALTH AND SAFETY

Please observe the precaution displayed the container from away with child, food, drinks, animals and container must be ventilated. If any immediately emergency use water and consult with doctor. Avoid skin contact and eyes should be use glove and eyes glass.

IMPORTANT

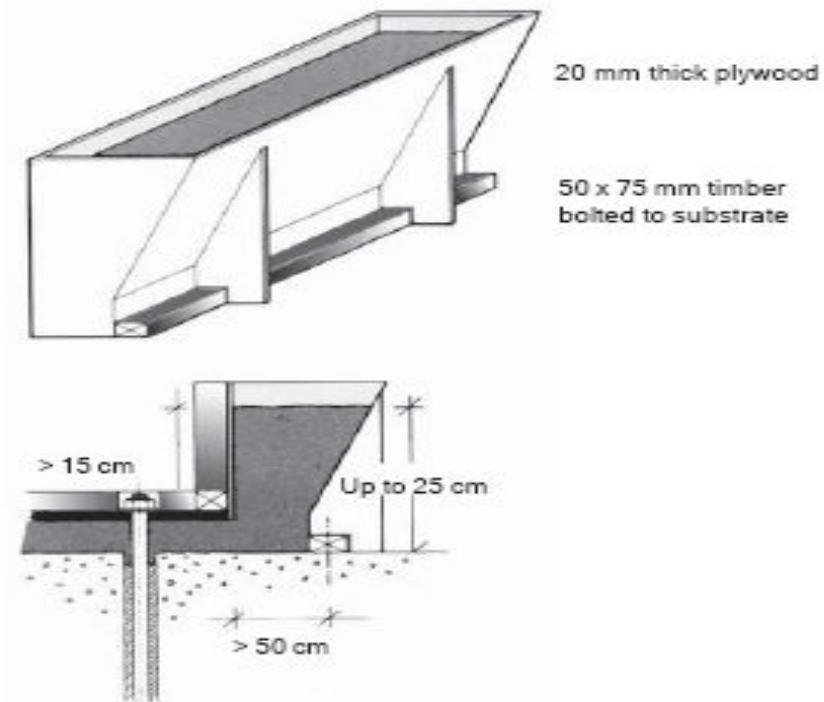
Use BOTICA GROUT 1000 with minimum gaps of 5 mm. and maximum depths of 125-150 mm. Temperature will affect setting time and strength gain. Normal curing practice should be maintained.

Typical drawing for baseplate installation



Disclaimer. All representations and recommendations set forth are given in good faith and the best of our knowledge. However due to varying conditions and applications the buyer shall conduct its own tests of this product before use. Under no circumstances will the manufacturer be liable for any loss or damages caused by incorrect usage. The sale of this product shall be on terms and conditions set forth on BOTICA's order acknowledgement

Typical hopper detail



Disclaimer. All representations and recommendations set forth are given in good faith and the best of our knowledge. However due to varying conditions and applications the buyer shall conduct its own tests of this product before use. Under no circumstances will the manufacturer be liable for any loss or damages caused by incorrect usage. The sale of this product shall be on terms and conditions set forth on BOTICA's order acknowledgement