

### Product Description

La BorePack PG2 is supplied as a ready to use dry powder. The addition of a controlled amount of clean water will produce a fluid, aggregate filled grout for pouring or pumping into large voids between structural elements.

La BorePack PG2 is a blend of Portland cements, graded aggregates and waterproof additives. The low water requirement produces a fluid grout of high strength with good workability.

#### Standards compliance

La BorePack PG2 meets or exceeds the test requirements of ASTM C 1107.

### Uses

La BorePack PG2 is used to grout gap thicknesses of 50-250mm. La BorePack PG2 can be mixed partially with 6-10mm aggregates to filling large voids and gaps in concrete.

Typical applications of La BorePack PG2 are:

- Core cutting and Tie-rod holes in concrete
- Jacketing of structural members
- Large concrete voids

### Advantages

- Non shrink and non metallic.
- High compressive strength.
- Crystalline properties
- No need to site batch aggregates.
- Highly flowable.
- Extended workability.
- Can be pumped or poured.
- Chloride free.

### Specification

All grouting of gap thicknesses typically 50-250mm must be carried out with the non shrink cementitious aggregate filled pre-bagged grout, La BorePack PG2, supplied by La Greens. It shall provide a compressive strength of minimum 45N/mm<sup>2</sup> at 28 days.

### Technical Properties

The physical properties shown below were obtained under laboratory conditions at 23°C at a water : powder ratio of 0.12, and may vary in practice.

The following results were obtained at a Water: Powder Ratio of 0.16 @ 30°C

Test	Typical result at 30°C
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Compressive strength (N/mm<sup>2</sup>)  
(Without aggregates)

1day	3days	7days	28days
15	30	40	50

Compressive strength (N/mm<sup>2</sup>)  
(With 50% aggregates)

1day	3days	7days	28days
17	32	42	53

Flexural strength  
(BS4551 - 80)

6.2N/mm<sup>2</sup> @ 28 days

Flowability  
ASTM C939

20 - 22cm @ 0.16% W/P @ 30°C

Average Unrestrained  
Expansion

2.8%

Unrestrained  
Expansion range

1-4%

Fresh Wet Density

2.3 ± 0.1 g/cc

Water Powder Ratio

0.16

Note : Compressive strength will be > 60N/mm<sup>2</sup> @ 28 days @ W/P : 0.16%

#### Preparation

The substrates must be free from oil, grease or any loosely adhering material. If concrete surfaces are defective or have laitence, they must be cut back to a sound base. Core cutting and tie-rod holes must be blown clean of any dirt and debris.

Soak concrete substrates for a minimum of two hours continuously prior to placing the non-shrink grout.

Immediately prior to placing, all free water should be removed leaving the substrate in a surface dry condition.

#### Formwork

The unrestrained surface area of the grout must be kept to a minimum. Generally the gap width between the perimeter formwork and the concrete should not exceed 250mm vertical.

## Mixing and Application

Do not attempt part-mixes. 25kg bags of La BorePack PG2 may be mixed in a clean drum using mixing Paddle fitted to a slow speed drill. Pour the water into the drum and with the paddle in motion, slowly add the contents of La BorePack PG2 to the accurately measured water and mix continuously for 3-5 minutes. In order the desired consistency use appropriate amount of water as mentioned below:

## Consistency of grout mix

The quantity of clean water required to be added to a 25kg bag to achieve the desired consistency are given below:

Trowellable	3.0 to 3.5 Litres /25kg
Flowable	4 Litres /25kg

The selected water content should be accurately measured into the mixer. The total contents of La BorePack PG2 bag should be slowly added and continuous mixing should take place for 5 minutes. This will ensure that the grout has a smooth even consistency.

Pour or pump La BorePack PG2 from one point only to eliminate the entrapment of air.

La BorePack PG2 is formulated to give extended workability but must be placed within 20-30 minutes of mixing.

## Curing

All exposed areas should be cured using La CureCrete WB continuous application of water or with wet hessian.

## Cleaning

La BorePack PG2 should be removed from all tools and equipment with clean water immediately after use.

Cured material can be removed only mechanically.

## Limitations

At ambient temperatures above 35°C, the mixed grout should be placed immediately after mixing. Mixing should be employed with water below 20°C.

## Packaging

La BorePack PG2 is supplied in 5 & 25 kg moisture resistant bags

## Storage & Shelf Life

When stored in warehouse conditions below 35°C, La BorePack PG2 will have a shelf life of 09 months.

## Health & Safety

La BorePack PG2 is alkaline and should not come into contact with skin and eyes. Inhalation of dust during mixing should be avoided. Gloves, goggles and dust mask should be worn. If contact with skin occurs, it shall be washed with water. Splashes to eyes should be washed immediately with plenty of clean water and medical advice sought.

## Fire

La BorePack PG2 is non-flammable and thus presents no fire hazard.

**Important:** La Greens India Pvt. Ltd., products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, La Greens India does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.



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