



Product Description

BCI-LVEP is a solvent free epoxy resin grout designed for adhesive grouting of gap widths of 0.25 to 10mm, anchoring, repair of spalls and cracks. It is a two component system consisting of base and hardener. The components are supplied in the correct mix proportions designed for whole pack mixing on site.

Uses

Provides a free flowing grout, for use where physical properties and chemical resistance of the hardened grout are of utmost importance. It is suitable for a wide range of heavy duty applications including:

- Baseplate grouting to substantial structural elements
- Base plate grouting in dynamic load situations such as turbines and other reciprocating machinery
- Repair of spalled and cracked concrete
- Installation of bolts, anchors and dowels

Advantages

- High early strength
- Fluid, self-leveling consistency
- Excellent adhesion to steel and concrete
- Good impact resistance
- Chemical resistance

Technical Properties

Pot life	50 min. @ 27°C
Viscosity	Very Low
Density	approx. 1.05 ±0.02 grm/cm ³
Tensile strength	20 N/mm ² @ 7days
Flexural strength	35 N/mm ² @ 7days
Compressive strength	50 N/mm ² @ 3days 60 N/mm ² @ 7days
Bond strength	>2.5 N/mm ² @ 7days

Application instructions

Underplate grouting

The unrestrained surface area of the grout must be kept to a minimum. Generally, the gap between the perimeter formwork and the plate edge should not exceed 75 mm on the pouring side and 25 mm on the opposite side. Formwork on the flank sides should be kept tight to the plate edge. Air pressure relief holes should be provided to allow venting of any isolated high spots.

Formwork

The formwork should be constructed of rigid non absorbent materials, liquid tight and strong enough to resist forces developed during grout placement as BCI-LVEP is a free flow grout. For free flow grout conditions, it is essential to provide a hydrostatic head of grout. To achieve this a feeding hopper should be used - please consult your local La Greens office for more details.

Foundation & Repair surface

Must be free from oil, grease, or any loosely adherent material. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Bolt holes, repair cracks in concrete must be blown clean of any dirt or debris.

Mixing and placing

Mixing

The entire contents of the hardener can should be poured into the base container and mixed for 2-3 minutes or until uniform colour is achieved. Once mixed, the material must be used within the specified pot life (see under Properties). After this time, unused material will have stiffened and should be discarded.

Note: Immediately prior to placement, all surfaces must be dry.

Placing

Ensure that the grout can be placed within its pot life. Continuous grout flow is essential. Sufficient grout must be available prior to starting and the time taken to pour a batch must be regulated to the time taken to prepare the next one. Pouring should be from one side of the void to eliminate air entrapment. The hydrostatic head must be maintained at all times so that a continuous grout front is achieved.

Cleaning

All tools and equipment should be cleaned immediately after use.



Hot weather working

Whilst the performance of BCI-LVEP at elevated temperatures is assured, application under such conditions can sometimes be difficult. It is therefore suggested that, for temperatures above 35°C, the following guidelines are used:

1. Store unmixed materials in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight
2. Keep mixing and placing equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself
3. Try to eliminate application in the middle of the day, and certainly avoid application in direct sunlight
4. Ensure that there are sufficient operatives available to complete application within the material's pot life

Limitations

BCI-LVEP should not be placed in any unrestrained situation, i.e. base plate plinths, etc. Failure to comply may lead to crack development in the grout.

Packaging

BCI-LVEP : 1kg pack

Shelf Life

BCI-LVEP has a shelf life of 12 months in unopened packs, if kept in a cool dry storage. In high humidity locations, the shelf life may be reduced to less than 6 months if kept at 35°C

Health & Safety

BCI-LVEP is non-toxic but it is alkaline in nature. Gloves and goggles should be worn. Any splashes to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, medical advice should be sought. Should use a dust mask while handling the powder.

BCI ADDITIVES INDIA LLP.

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Important: BCI Additives India LLP., 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, BCI Additives India LLP. 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.