





CONSTRUCTION CHEMISTRY

### Pot life

Ambient temperature affects the time for which bulk material will remain fluid. Typical values in minutes are enclosed.

Temperature	Pot life in minutes
20°C	160
30°C	120
40°C	80
50°C	40

For application outside the above temperature ranges please contact your local Fospak Expanchem office.

### Technical support

Expanchem Fospak provides a technical advisory service for on-site assistance and advice on admixture selection, evaluation trials and dispensing equipment.

### Instruction for use

#### Preparation

#### Concrete surface

The substrate 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 and fixing pockets must be blown clean of any dirt or debris.

#### Base plate

It is essential that this is clean and free from oil, grease or scale. Air pressure relief holes should be provided to allow venting of any isolated high spots.

#### Leveling shims

If these are to be removed after the grout has hardened, they should be treated with a thin layer of grease.

#### Formwork

The formwork should be constructed to be leak proof. This can be achieved by using foam rubber strip or mastic sealant beneath the constructed formwork and between joints. In some cases it is practical to use sacrificial semi-dry sand and cement formwork.

### Unrestrained surface area

This must be kept to a minimum. Generally the gap width between the perimeter formwork and the plate edge should not exceed 75 mm on the pouring side and 25 mm on the opposite side. It is advisable where practical to have no gap at the flank sides.

### Mixing

For best results a mechanically powered grout mixer should be used. When quantities up to 20 kg are used, a slow speed drill fitted with Mixing Paddle should be used. To enable the grouting operation to be carried out continuously, it is essential that sufficient mixing capacity and labour are available.

### Placing

The mixed grout should be poured steadily from one side only to eliminate the entrapment of air.

Continuous grout flow is essential.

Sufficient grout must be available prior to starting. The time taken to pour a batch should be regulated to the time taken to prepare the next batch.

### Flow characteristics

The maximum distance of flow is governed by the gap thickness, the head of grout applied and the ambient temperature.

Continuous grout flow is essential. Sufficient grout must be prepared before starting. The time taken to pour a batch must be regulated to the time taken to prepare the next one.

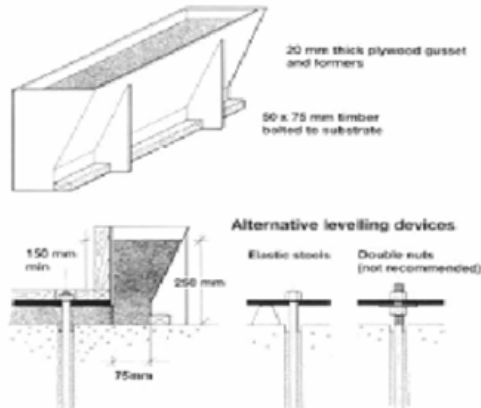
Pouring should be from one side of the void to eliminate any air. It is advisable to pour the grout across the shortest distance of travel. The grout head must be maintained at all times so that a continuous grout front is achieved.



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## Typical hopper system

Removable hopper: For larger pours the grout may be hand placed or pumped into a removable hopper.



## High temperature working

It is suggested that, for temperatures above 40°C, the following guidelines are adopted as good working practice:

- (i) Store unmixed material in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- (ii) Keep 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.
- (iii) Try to eliminate application during the hottest times of the day and in direct sunlight.
- (iv) Make sufficient material, plant and labour available to ensure that application is a continuous process.

## Cleaning

Expangrout\* EP450 should be removed from tools & equipment with Expanchem Solvent 102 immediately after use. Cured material can be removed mechanically.

## Estimating

### Supply

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Expangrout\* EP450 : 20 Kg. pack

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Expanchem Solvent 102 : 5 & 25 Ltr. Can

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Note:- Allowance should be made for wastage when estimating quantities required.

## Storage

Expangrout\* EP 450 has a shelf life of 12 months if kept in a dry store in sealed packing. If stored in high temperature locations the shelf life will be reduced.

## Limitations

Grouts 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.

Expangrout\* EP450, grouting may be carried out without any special precaution at ambient temperatures from between 25°C to 45°C.

For low temperatures below 20°C the cure rate may slow, but will go to completion provided the temperature remains above 10°C

## Precaution

### Fire

Expanchem Solvent 102 is flammable. In the event of fire extinguish with CO<sub>2</sub> or foam.

## Health and safety

Expangrout EP450 contains resin, which may cause sensitization by skin contact. Avoid contact with skin and eyes and inhalation of vapours. Wear suitable protective clothing, gloves and eye / face protection. Barrier cream provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream, followed by soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice, do not induce vomiting.



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\* Denotes the trademark registered.

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