



### DESCRIPTION

Duraplug is a rapid setting, cement based, impermeable mortar used for water leaks and seepage in concrete and masonry substrates.  
Duraplug will set within 3 - 5 minutes (at normal temperatures), ready for the subsequent application of a suitable waterproofing membrane.

### SCOPE OF APPLICATION

Duraplug is suitable as a plugging mortar for internal or external applications including:

- Rapid sealing of fast flowing water leaks and water seepage in concrete, concrete block walls, brickwork and all types of stone and masonry surfaces
- Emergency repairs on water pipes (including when under pressure)
- Emergency plugging of gas leaks
- Anchoring bolts and other accessories that require immediate use
- Underground basements, tunnels and sewers - to stop water under pressure

### PACKING

Duraplug is available in 3kg buckets.

### PRODUCT VOLUME

1kg of Duraplug fills approximately 600 – 650mls, depending on the mixing water used. The cavity volume is approximately 1.6kg/ litre.

### SURFACE PREPARATION

- For quickly sealing cracks and joints, chisel out the affected area to at least 3cm deep and approximately 4cm wide. Ensure that a square shape cut is made, and widen the wedge on the inside of the cut (as per diagram below). Avoid creating a 'V' shape.
- Clean the surface to be waterproofed until it is free of concrete curing compounds, form release agents, paints and all other coatings, dirt and contamination.
- It is important to wet the surface if water is not present at the time of application.

### MIXING INSTRUCTIONS

Note: Shake bucket prior to mixing.

- 1- Mix only enough Duraplug which can be applied in three minutes and if it is a water leak, mix only the amount of material that can be used with your hand.
- 2- Fill a plastic or rubber container with Duraplug powder and slowly add water until a mortar like consistency is formed.
- 3- One kilogram of Duraplug requires approximately 250- 280ml of water depending on weather conditions.

### APPLICATION INSTRUCTIONS

As Duraplug is an alkaline material, ensure you wear gloves prior to application.  
Apply Duraplug with a trowel, a spatula or for best results, by hand. Do not pour the material in place.

### LEAKS IN CRACKS OR JOINTS

- 1- Once the surface has been prepared, apply Duraplug in small amounts and mix only enough material that can be applied by hand. Knead the mixture with a gloved hand for approximately 15 seconds until the temperature of the mix increases and it becomes warm and slightly stiff.
- 2- Due to the rapid setting time of the mortar, application must be done quickly.
- 3- Mould the mortar into a cone like shape ready to fill the prepared area. Install the plugging mortar immediately and maintain firm hand pressure on it for about 30 seconds until it has set.
- 4- For large repairs, work from the lowest end of the repair towards the highest end, applying each new plugging mix next to the previous.
- 5- Immediately remove the excess material and continue until the crack is completely filled. When the area to be repaired is exposed to high fluid pressure, or in a tunnel or basement, do not try to plug up the crack all at once. Construct the repair in layers, allowing each to harden slightly before applying the next layer.



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## DURAPLUG

TECHNICAL DATA SHEET

### CURING

During normal weather conditions (18 - 20°C temperature range), Duraplug takes between three to five minutes to set. When temperatures are hotter, use cold water or ice in the mixing water to delay the setting time.

### CLEAN UP

Clean tools immediately with water. If the material has hardened, it will need to be removed via mechanical methods. Note: Once the product has hardened and cured it should be sanded back and an approved waterproofing membrane applied over the top.

### STORAGE

Duraplug will keep for up to 6 months if kept sealed in its original container. High temperature and humidity after opening may reduce the storage life of the product.

### PRECAUTIONS FOR USE

Duraplug contains cement powders which can be harmful to the skin. During use, avoid inhalation of dust and contact with the skin and eyes. Wear suitable clothing, gloves, eye protection and respiratory protective equipment. If contact with the skin occurs, thoroughly clean the area with plenty of fresh water and soap. In case of contact with the eyes, rinse with plenty of fresh water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.

For further information consult the Material Safety Data Sheet and read the product label carefully before use.