

HARDOPLUG

Quick Setting Cementitious Mortar

DESCRIPTION

HARDOPLUG is a rapid setting, plugging mortar supplied in powder form. It requires only the addition of water and hardens in a matter of seconds to seal leaks, even in running water.

HARDOPLUG is a fine grey powder consisting of selected Portland cements blended with activating chemicals and high grade silica aggregates.

Water flow can be stopped by mixing the **HARDOPLUG** to a malleable consistency and using as a plug.

TYPICAL APPLICATIONS

Water retaining structures, basements, lift wells, inspection pits, tunnels and underground structures. Joint filling of concrete tunnel segments and pipes. Pointing and patch repairs prior to application of waterproof renders or the **MITCHSEAL CWP** capillary action waterproofing system.

ADVANTAGES

Rapid setting - Typically 30 - 60 seconds.

Easy to use - simply add water.

Chloride free - no risk to steel reinforcement.

Non-toxic - suitable for use in potable water systems.

Premixed - giving consistent quality and results.

PACKAGING

HARDOPLUG is supplied in 5 kg units which will yield approximately 2.5 liters of mortar.

APPLICATIONS PROCEDURE

SURFACE PREPARATION

Surface to be plugged must be clean and free from dust, oils, grease, and laitance, curing compounds, residual mold oils or other contaminants that could impair adhesion.

APPLICATION

To plug leaks under pressure chase out the area of the leak to a depth of 20 mm and until water flow is free.

Using a gloved hands, pre-treat the surrounding area by applying the dry **HARDOPLUG** powder until subsidiary seepage stops.

Prepare a plug of material by mixing powder with sufficient water to obtain a malleable consistency. Using a gloved hand, press the plug firmly into the main leak and hold it in place until set. If necessary, apply a further amount of **HARDOPLUG** powder onto the surface.

Continue precautionary waterproofing using the **MITCHSEAL CWP** capillary action system.

MIXING INSTRUCTIONS

HARDOPLUG can be mixed with either a clean rod or gloved hand to the desired consistency.

Mix only the quantity which can be used immediately.

Mix **HARDOPLUG** powder with water in the ratio 3:1 by volume.

Under NO circumstances should water be increased beyond this ratio. Materials will have semi-dry mix consistency to allow for hydration to take place with leakage water.

TYPICAL PROPERTIES

Density:	1950 kg/m ³	
Strength development:	3 N/mm ²	15 min
	6 N/mm ²	1 hour
	7 N/mm ²	24 hours

Clean tools and equipment IMMEDIATELY after use with water. Hardened **HARDOPLUG** can only be removed mechanically.

STORAGE

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. Shelf life is six months.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapor until product is fully cured or dried). Treat splashes to skin and eyes immediately. If accidentally ingested, seek medical attention.