

VARAPLUG

RAPID SETTING WATER SEALING MORTAR

DESCRIPTION

VARAPLUG is supplied as a ready to use dry powder requiring only the addition of water to produce a rapid setting and hardening mortar for plugging and stopping water leaking through the concrete.

It is a blend of special cements, hydraulic cement and modifying agents to improve the bonding and waterproofing characteristics of this water plugging mortar.

It is a product free of chlorides. It is engineered to have low exothermal characteristic than most similar competitive products available in the local market.

USES

VARAPLUG is designed to seal very rapidly all water seepages in damaged concrete structures, building basements, tunnels, marine structures, sewage pipes and underground concrete structures.

VARAPLUG is recommended for patching and sealing honeycombed concrete and water leaking concrete cracks.

ADVANTAGES

- ◆ **Rapid setting** : It is an ideal ultra rapid setting mortar.
- ◆ **Chloride free** : No chlorides are added in the mix and hence corrosion of the reinforcement is avoided.
- ◆ **Quality** : Locally manufactured product always fresh and quality controlled at the factory.
- ◆ **Easy to use** : Easily applied by hand or trowel in thickness from 10 to 200mm in several applications.
- ◆ **Versatility** : Can be installed outdoor or indoor as well as in marine environments.
- ◆ **Adhesion** : Bonds well to wet water leaking concrete.

- ◆ **Iron free** : Contain no iron and hence avoids the corrosion of the steel reinforcement.

TYPICAL PROPERTIES

- ◆ **Setting time** : 1 to 5 minutes with low exothermal characteristics which prevents the development of thermal cracking and loss of adhesion.
- ◆ **Compressive strength : BS 6319 Pt. 2: 1983:**
- ◆ **VARAPLUG** : 25 N/mm² @28 days.
5-7 N/mm² @1 hour @20° C
7-10 N/mm² @3hours@20° C

APPLICATION


Leaking areas of honeycombed concrete must be cut back or chisel chased to a depth of 15 to 25mm. All the damaged, unsound and porous concrete must be removed. Laitance, grease, mould oils or other contaminants must be removed and cleaned with pressure water jet blasting. The concrete repair area must be properly wetted and soaked with water.

Place approximately 1 part water in a plastic pail and add gradually 3 parts **VARAPLUG** stirring and mixing to obtain a stiff consistency mortar free from any lumps.

Place some of this mortar on your gloved protected hand and hold until a slight change in temperature start developing in the product. At such a time pack the mortar into the opened space and hand knead with pressure to ensure that a good contact is achieved with the old concrete.

Hold the hand against the mortar for a short time until it sets and hardens.

In the presence of heavy and severe seepages, it may be necessary to provide pressure release drains by drilling openings in the concrete crack at



different spacings. These openings should be plugged and sealed at the end of the works using **VARAPLUG**.

Coverage : 1 kg **VARAPLUG** gives yield of 0.5 litre approximately. Allowance must be made for wastage.

PACKAGING

VARAPLUG is supplied in 5kg bags.

Fire resistance : **VARAPLUG** is not flammable.

PRECAUTIONS

Mixing water : Ensure that the water used for mixing is at 25°C (approx.) or less in very hot climates.

Cleaning : All equipment must be cleaned with water immediately after use. Mixes containing this product must not be emptied into drainage systems.

Storage : Shelf life is 12 months when stored in dry conditions at moderate temperature and humidity.

HEALTH AND SAFETY

The product is non toxic but is mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of prolonged irritation, seek medical advice.