



# KISTAL PLUG

## Rapid Setting Waterproof Plug

### DESCRIPTION

KISTAL PLUG is a single component, high adherence, fast setting hydraulic mortar which sets and hardens within a minute when mixed with water. It will form to a water-tight mass instantly, hence stopping active water leakages and provide long-term protection against water leakage.

### RECOMMENDED USE

- Concrete, brick and masonry cracks or holes
- Basement or foundation
- Retaining wall
- Elevator pit
- Well
- Mines
- Tunnels
- Cofferdams

### ADVANTAGES

- Set instantly and stop running water leakages
- Chloride free
- Inert to corrosion in embedded metals
- High early and final compressive and tensile strength
- Resistance to seawater

### PACKAGING

KISTAL PLUG is supplied in 5 kg pail

### APPLICATION GUIDELINES

#### a) Surface Preparation

Surface must be clean and free of voids, loose materials, oil grease, curing compounds, sealers and any foreign matters using suitable tools.

#### b) Mixing

Pour water into a clean container and add dry KISTAL PLUG slowly in the container. Mix 300g water with 1kg of KISTAL PLUG. Mix the mixture for 15 seconds using gloved hand or trowel. Do not mix the mixture for more than 30 seconds

#### c) Application

##### **1) General Patching**

After mixing with water, make KISTAL PLUG into a mouse for another 15 seconds and force KISTAL PLUG into the hole or crack by gloved hand or using a trowel. Fill the opening of the hole or crack completely by using KISTAL PLUG. The KISTAL PLUG should be kept moist for 15 minutes to help curing.

REV. TDS-PLUG-V1  
Dated: 19-APR-2017

KENSETSU INTERNATIONAL (S) PTE LTD



## 2) Repairing Active Water Leakages

Identify the crack or hole with active water leakage and remove all loose materials cleanly to expose the sound substrate. After mixing KISTAL PLUG with water and make the mixture into a mouse, force the KISTAL PLUG into the prepared area and apply pressure with hand for at least 1 minute or until KISTAL PLUG has taken its firm set. If the area of crack or hole is too big, continue this procedure from the border of the area towards its center.

## 3) Filling at Joint Between Floor and Wall

Identify leakage at joint and do surface preparation accordingly. Force the KISTAL PLUG into the joint by using a rounded tool. At the same time, construct a 45 degree transitional cove between the floor and wall.

## 4) Repairing leaking mortar joints and cracks in masonry or concrete wall

Cut out defective mortar or cracks to a minimum width and depth of 20mm. Dovetail cut if possible. Force KISTAL PLUG into the crack and keep damp for 15 minutes.

## 5) Anchoring bolts or metal posts in masonry or concrete

Drill holes deep enough to secure bolt or post properly, ensure that area around the bolt or post is at least 13mm wide. Fill the entire hole fully with KISTAL PLUG. Position the bolt or post in the centre and tamp firmly around it. Keep KISTAL PLUG moist for 15 minutes. Do not apply pressure to bolt or post for 6 hours.

### **LIMITATION**

KISTAL PLUG must not be mixed with water for more than 30 seconds.

### **COVERAGE**

1 kg of KISTAL PLUG will fill approximately 600cm<sup>3</sup>.

5 kg/ pail can cover approximately 3000cm<sup>3</sup>.

*\*(Coverage may vary with surface and other site conditions)*

### **STORAGE**

KISTAL PLUG should be stored in a cool and dry area, tightly sealed in its original packing, and a 12-month shelf life can be expected from date of manufacturing.

### **HEALTH & SAFETY**

Refer to KISTAL PLUG SDS for further information.

Use proper personal protection equipment and avoid direct skin contact.



## **TECHNICAL PROPERTIES**

KISTAL PLUG	
Appearance	Powder
Colour	Grey
Compressive strength	a) 30 minutes $\geq 7 \text{ N/mm}^2$
	b) 4 hours $\geq 10 \text{ N/mm}^2$
Adhesion strength (EN 1542)	$\geq 0.50 \text{ N/mm}^2$ (28 days)
Pot life (23°C, 50% RH)	1 min to 1 min 50 secs
Final drying	2 to 3 mins

### **IMPORTANT NOTES**

Any information and/ or specification contained herein is to the best of the company knowledge, true and accurate, it is always recommended that trial to be carried out to confirm suitability of use for all products, as no warranty is given or implied in connection with any recommendations and/or suggestions made by the company representatives, agents and/or distributors.

All information contained in this document is effective from date shown and supersedes all previous version. Please check with your local KENSETSU office to confirm that this is up to date version.

REV. TDS-PLUG-V1  
Dated: 19-APR-2017  
KENSETSU INTERNATIONAL (S) PTE LTD