

# VARAPROOF IWP POWDER

## WATER PROOFING ADMIXTURE FOR PAVING BLOCKS, TILES AND BRICKS

### DESCRIPTION

**VARAPROOF IWP POWDER** is a specially designed blend of surface active waterproofing aids and integral synergistically active chemicals. **VARAPROOF IWP POWDER** helps achieve the desired water tightness in paving blocks, tiles and bricks with its dual action by reducing mix water requirements and migration of its surface active ingredients towards the surface.

### ADVANTAGES

- ◆ Powder form makes it easy to use in semi dry mixes.
- ◆ Reduced water demand, makes product more denser, giving reduced water permeability and increased strength.
- ◆ Water Proofing: Provides better dispersion of cement particles giving closer packing and reduces pore size. This results in minimised capillary action in concrete. The surface active ingredients migrate towards the surface and impart good to excellent water repellancy properties.
- ◆ Water absorption is reduced upto 40% against control mix due to the dual action of water reduction and water repellancy.
- ◆ Chloride free: No added chlorides.
- ◆ Compatibility with Cements: Can be used with all types of portland cements including sulphate resisting cement.

### USES

**VARAPROOF IWP POWDER** is recommended to be used in paving blocks, tiles and bricks manufacturing. It can be used in the sand lime brick mix. It can also be used in high strength blocks such as Interlock, Paving Blocks, Kerbstones etc.

**VARAPROOF IWP POWDER** provides good degree of water tightness and water repellent properties to tiles and bricks. It is highly recommended for controlling or eliminating efflorescence in tiles and bricks which are laid on damp or moist substrates.

### TYPICAL PROPERTIES


- ◆ Calcium chloride content: Nil to **BS 5075 : 1982**.
- ◆ Air entrainment: Less than 1% additional air is entrained.
- ◆ Setting time: Less than 1 hour retardation at normal dosage.
- ◆ Cement Compatibility: Compatible with sulphate resisting and other portland cements.
- ◆ Admixture Compatibility: Use as single admixture only. For special requirements contact **AKARSH** Technical Department.
- ◆ Water Proofing: Reduction of water absorption by 25 to 40% as per **ASTM C 642**.

### INSTRUCTIONS FOR USE

**VARAPROOF IWP POWDER** should be premixed in dry mix prior to addition of water. Water, cement ratio should be reduced typically by 10 to 15% of original but can be adjusted as per mix requirements.

**Dosage** : **VARAPROOF IWP POWDER** should be added at a rate of 1 kg per 50 kg of cement, optimum dosage should be determined by site mixes with actual site conditions.

**Overdosing** : An overdose of double the recommended amount of **VARAPROOF IWP POWDER** will result in some retardation and increased workability. The ultimate compressive strength of concrete will not be significantly effected.



**Curing** : As per standard practices.

### **TECHNICAL SUPPORT**

'AKARSH' provides technical support service to mix design, admixture selection, evaluation of trials etc. Please contact the Technical Department in these cases.

### **PACKAGING**

**VARAPROOF IWP POWDER** is supplied in 25kg bags.

**STORAGE - VARAPROOF IWP POWDER** should be protected from extremes of temperature. **VARAPROOF IWP POWDER** has a minimum shelf life of 12 months provided temperature is kept within the range 2° C to 30° C.

**Fire : VARAPROOF IWP POWDER** is non flammable.

### **HEALTH & SAFETY**

**VARAPROOF IWP POWDER** is non-toxic. Any splashes to the skin should be washed immediately with water and medical advice should be sought.