

KUT PLAST WP1

Waterproofing Admixture For Paving Blocks, Tiles and Bricks

ADM-17-1110



DESCRIPTION

KUT PLAST WP1 is a specially designed blend of surface active waterproofing aids and integral synergistically active chemicals. **KUT PLAST WP1** 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.
- **Waterproofing:** 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 up to 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

KUT PLAST WP1 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.

KUT PLAST WP1 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.
- **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 ASPEC Technical Department.
- **Water Proofing:** Reduction of water absorption by 25 to 40% as per ASTM C 642.

INSTRUCTIONS FOR USE

KUT PLAST WP1 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: **KUT PLAST WP1** 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 **KUT PLAST WP1** will result in some retardation and increased workability. The ultimate compressive strength of concrete will not be significantly effected.

Curing: As per standard practices.



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TECHNICAL SUPPORT

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

PACKAGING

KUT PLAST WP1 is supplied in 25kg bags.

STORAGE

KUT PLAST WP1 should be protected from extremes of temperature. **KUT PLAST WP1** has a minimum shelf life of 12 months provided temperature is kept within the range 2°C to 30°C.

PRECAUTIONS

HEALTH AND SAFETY

KUT PLAST WP1 is non-toxic. Any splashes to the skin should be washed immediately with water and medical advice should be sought.

Fire: KUT PLAST WP1 is non flammable

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