



W5

POLY ASUKA PLUS

A HIGH RANGE WATERPROOF ADMIXTURE WITH LOW DOSAGE

WATERPROOFING

Poly Asuka Plus is a liquid admixture of concrete which gives high range of water resistance based upon integrated lignosulphonate and surface active agents. Poly Asuka Plus not only help in compaction and plasticizing but also reduces the water considerably.

SCOPE OF USES

For all structures that are in constant contact with water such as basement, water reservoirs, basement, sea water and under ground water tanks.

ADVANTAGES

- Poly Asuka Plus is resistant to water penetration either under conditions of hydrostatic pressure or capillary absorption.
- It improves the cohesive properties of the concrete and hence reduces segregation and bleeding.
- Durability is increased due to significant reduction in water cement ratio.
- The attack of sulphate is reduced due to the sulphate bearing ground water being resisted.

INSTRUCTION OF USE

Poly Asuka Plus is totally miscible in water. It is incorporated into the mixing water. The quantity of water is determined as a function of the Plasticity desired.

STORAGE

Poly Asuka Plus has a shelf life of 12 months if stored at temperature between 2°C and 50°C. If these conditions are exceeded, POLYWED technical department Should be contacted for advice.

PACKAGING

Poly Asuka Plus is available in 25 liters pails, 210 liter drums and 1000 liter bulks supply.

DOSING RATES

CPA at low C3A: 1.00 liter / 100 kg cement. CPA at high C3A: 1.20 liter / 100 kg cement. Standard amount for use 0.5 to 3.5 ltr / 100 kg Cement.

	Absorption g.dm ³ .min	
	7 Days	28 Days
Control	13.30	7.20
Poly Asuka Plus 1 liter / 100 kg cement	5.40	3.30

TECHNICAL PROPERTIES

Appearance	Brown Liquid
Specific Gravity	Typically 1.25 – 1.16 @ 20 °C
Chloride Content	Nil to BS 5075
Air Entrainment	Less than 2% additional air is entrained at normal dosages
Alkali Content	Less than 5.0g. Na ₂ O equivalent / liter of admixture.

CLEANING

Poly Asuka Plus can be washed with fresh cold water.

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POINTS TO REMEMBER WHEN PRODUCING WATERPROOF CONCRETE

- Ensure specific water-cement ratio is not exceeded.
- Water content should be kept as low as possible compatible with achieving full compaction.
- Concrete should be placed thoroughly and ensured it is thoroughly compacted.
- Protect new concrete against rapid drying out and ensure adequate and complete curing.

EFFECTS OF OVER DOSING

(An overdose of double the intended amount of Poly Asuka Plus will result in an increase in retardation as compared to that normal obtained at the intended dosage. Provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired by increased retardation and will generally be increased. The effects of over-dosage will be further increased if sulphate resisting cement or cement replacement materials are used. Over dosage may also cause increased air entrainment, which will tend to reduce strength. The degree of this effect will depend on the particular mix design and over-dosage level.



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