

# YASH SEAL PROOF IWL



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Integral waterproofing admixture

### Description

YASH SEAL PROOF IWL is liquid concrete waterproofing admixture formulated from selected polymers specially designed to reduce the concrete water permeability by reducing capillary voids within the concrete, which will last for the life of the concrete.

### Applications

- + To produce concrete with lower permeability.
- + For water retaining structures and concrete substructures.

### Advantages

- + Minimizing segregation problems by improving cohesion.
- + Improved workability reduces placing and compaction problems.
- + More durable concrete due to lower permeability.

### Compatibility

YASH SEAL PROOF IWL can be used with all types of Portland cement and cement replacement materials. YASH SEAL PROOF IWL is compatible with other YASH admixtures used in the same concrete mix. If more than one type of admixture is to be used in concrete mix, they must be dispensed to the concrete separately.

### Standards

YASH SEAL PROOF IWL complies with ASTM C494, Type A and IS2645.

### Method of Use

YASH SEAL PROOF IWL should be added to the concrete with the mixing water to achieve optimum performance. An automatic dispenser should be used to dispense the correct quantity of YASH SEAL PROOF IWL to the concrete

mix.

### Dosage

The guidance dosage of YASH SEAL PROOF IWL is 0.15 - 0.25 litre/50 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica within this dose, water content can be reduced by 10 - 15% due to the plasticising action of YASH SEAL PROOF IWL.

### Technical Properties @ 25°C:

Colour	: Brown liquid
Freezing point	: ~ -2°C
Specific gravity	: 1.18 ± 0.01
Chloride content:	
BS5075	Nil
Air entrainment :	Typically less than 2% additional air is entrained above control mix at normal dosage

### Test Results:

Mix proportions:	1:2:4
Dosage:	0.25 ltr/50 kg cement
Control	RMW
Water/cement ratio:	0.54    0.49
Slump:	65 mm    65 mm
Compressive strength:	
@ 28 days	42.40 MPa    43.60 MPa

### Permeability:

The permeability measurements as per BS1881, Part 5:1970 has been carried out on samples of mortar using YASH SEAL PROOF IWL to determine the waterproofing efficiency of YASH SEAL PROOF IWL.

	Permeability (mt/m <sup>2</sup> /s)		
	10 min	30 min	60 min
Control:	11.6	6.8	3.4
YASH SEAL PROOF IWL:	4.8	2.9	1.6

Representative trials should be conducted to determine the optimum dosage of YASH SEAL PROOF IWL to meet the performance requirements by using the materials and conditions in actual use.

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## Effects of Over Dosage

Over dosing of YASH SEAL PROOF IWL will cause the following:

- + Significant increase in retardation.
- + Increase in workability.

Ultimate concrete strength will not be adversely affected and will generally be increased provided that proper concrete curing is maintained.

## Points to be considered in waterproof concrete

- Lower water to cement ratio gives lower permeability concrete.
- Good concrete placing and compaction are very important to produce waterproof concrete.
- Fresh concrete should be protected against rapid drying and cured properly.
- Cold joints must be avoided.

## Cleaning

YASH SEAL PROOF IWL can be washed with fresh cold water.

## Packaging

YASH SEAL PROOF IWL is available in 150 ml, 1, 5, 10, 20 & 50 litre pails.

## Storage

YASH SEAL PROOF IWL has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, YASH Technical Department should be contacted for advice.

## Cautions

### Health and Safety

YASH SEAL PROOF IWL is not classified as hazardous material.

YASH SEAL PROOF IWL should not come into contact with skin and eyes.

In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

## Fire

YASH SEAL PROOF IWL is nonflammable.

## More from YASH CONCHEM Products

A wide range of construction chemical products are manufactured by YASH which include:

- Concrete admixtures.
- Surface treatments
- Grouts and anchors.
- Concrete repair.
- Flooring systems.
- Protective coatings.
- Sealants.
- Waterproofing.
- Adhesives.
- Tile adhesives and grouts.
- Building products.
- Structural strengthening.

Note : We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, Yash cannot accept any liability either directly or indirectly arising from the use of Yash products, whether or not in accordance with any advice, specification, recommendation or information given by us.