

# YASH PLAST 101



## YASH PLAST 101

Air Entraining Plasticizer for Concrete and Mortar

### Description

YASH PLAST 101 is a liquid air entraining admixture with plasticizing properties specially designed to create microscopic air bubbles that are uniformly distributed in the concrete mix. It also permits reductions in the free water content to be made. YASH PLAST 101 is formulated from selected water reducer polymers and synthetic surfactants.

### Applications

- + It enables air entrainment of 4.5 +/- 1.5% in concrete mixes as per specification of Ministry of Transport without loss of strength.
- + Can also be used for waterproofing Purpose.
- + Greatly improves cohesion, reduces segregation and bleeding.
- + Increased freeze/ thaw cycle resistance.
- + Improves workability and plasticity.
- + Exceptionally effective with aggregates with high fine content.
- + Suitable for mixes containing PFA, GGBFS and micro silica, Chloride free.
- + Can also be used for M-Sand and Fly ash.
- + Of particularly benefits in crushed aggregates mixes where the improved cohesion of the mix results in minimising sand runs and eliminating bleeding.

### Advantages

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

### Compatibility

YASH PLAST 101 can be used with all types of Portland Cement and cement replacement materials.

### Technical Properties:

Appearance:	Brown Liquid
Specific Gravity:	1.18 +/- 0.02
Chloride Content:	NIL

YASH PLAST 101 is compatible with other admixtures used in the same concrete mix. If more than one type of admixture is to be used in concretemix, then must be dispensed to the concrete separately.

### Standards

YASH PLAST 101 complies with ASTM C260, BS 5075, Part 2, EN 934, Part 2 and IS 9103.

### Method of Use

YASH PLAST 101 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 PLAST 101 to the concrete.

### Dosage

The guidance dosage of YASH PLAST 101 to achieve air content of 4.5 +/- 1.5 % in the concrete mix and 10-15% water reduction is 0.10 - 0.40 litre per 100 Kg of cementitious material in the mix, including GGBFS, PFA or micro silica. We can go below or above the mentioned dose based on site concrete trials. Representative trials should have conducted to determine the optimum dosage of YASH PLAST 101 to meet the performance requirements by using the materials and conditions in actual use.

### Package:

YASH PLAST 101 is available in 50 and 250 Kg drums and bulks supply.

### Storage:

YASH PLAST 101 shelf life of 12 months from date of manufacture if stored at a temperature between 20°C and 50°C. If these conditions are exceeded, our technical department should be contacted for advice.

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## Air Void Characteristics:

The air void characteristics of hardened concrete were analysed in accordance with ASTM C457-82.

Dosage	280 ml/100Kg
Spacing Factor(/mm)	0.179
Spacing factor Standard (/mm)	< 0.200
Specific Surface (/mm <sup>2</sup> /mm <sup>3</sup> )	25.00
Specific Surface Standard (/mm <sup>2</sup> /mm <sup>3</sup> )	>23.60

The spacing factor and Specifies surface to the entrained air are those necessary to provide resistance to freeze thaw activity.

## Cleaning:

YASH PLAST 101 can be washed with fresh cold water.

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## Cautions:

### Health & Safety:

YASH PLAST 101 is not defined as hazardous material. It 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 PLAST 101 is non-flammable

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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.