



# CLASSIC AIRENT-3

## Air Entraining Plasticizer for Concrete and Mortar

### Description:

**Classic Airent-3** 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. **Classic Airent-3** is formulated from selected water reducer polymers and synthetic surfactants.

### Applications:

- In concrete mixes for roadways, airports runways and other concrete exposed to potential frost damage.
- To increase the durability of concrete and its resistance to damage by frost and de-icing salts.
- To increase cohesion of concrete mixes to overcome bleed, segregation and sand runs where poorly graded aggregates with fine content needs to be used.

### Advantages:

- 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 microsilica, 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.

### Compatibility:

**Classic Airent-3** 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

**Classic Airent-3** is compatible with other admixtures used in the same concrete mix. If more than one type of admixture is to be used in concrete mix, then must be dispensed to the concrete separately.

### Standards:

**Classic Airent-3** complies with ASTM C260, BS 5075, Part 2, EN 934, Part 2 and IS 9103.

### Method of Use:

**Classic Airent-3** 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 **Classic Airent-3** to the concrete.

### Dosage:

The guidance dosage of **Classic Airent-3** 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 microsilica. 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 **Classic Airent-3** to meet the performance requirements by using the materials and conditions in actual use.

### Package:

**Classic Airent-3** is available in 50 and 250 Kg drums and bulks supply.

### Storage:

**Classic Airent-3** shelf life of 12 months from date of manufacture if stored at a temperature between 2°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 Specific surface to the entrained air are those necessary to provide resistance to freeze thaw activity.

## Cleaning:

**Classic Airent-3** can be washed with fresh cold water.

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## Cautions:

### Health & Safety:

**Classic Airent-3** 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:

**Classic Airent-3** is non-flammable.

## Variety of Products:

Following are other similar products from Primadonn Buildtech Pvt. Ltd.

- Classic Airent
- Classic Crete-AXL (CB)
- Classic Crete-AXL (CF)
- Classic Crete-RMW (Powder)
- Classic Crete-RMW
- Classic Crete RPL
- Classic Mortar Plasticizer
- Classic Plasto-Master
- Classic Poly-Propylene Fibres
- Classic Superflo-PC
- Classic Superflo-N
- Classic Superflo-SP
- Classic Superflo Special

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