

Redwop[®]
INNOVATING FOR A BETTER WORLD

CONCRETE ADMIXTURE



PLASTCONE AIRENT

Air entraining admixture

Description

PLASTCONE AIRENT is a chloride free air entraining admixture based on neutralized Vinson resin. PLASTCONE AIRENT acts at the interface between the mixing water and cement/aggregate particles to produce microscopic air bubbles, which are evenly distributed throughout the concrete. The entrained air enhances durability by providing protection. Against the rapid temperature changes found in freezing and thawing conditions and with the use of de-icing salts.

Advantages

- Air entrainment increases the resistance of concrete to attack by frost and de-icing salts, reducing problems of surface scaling and concrete failure.
- Entrained air bubbles assist in the formation of a stable cohesive mix, reducing segregation and bleeding
- Air entrainment improves workability and helps produce a dense, uniform, close textured surface free from gravel nests and sand runs, so further enhancing durability.
- Excellent air bubble stability allows use with a wide range of aggregate qualities and mix conditions

Uses

- To produce air entrained concrete
- In all types of low and high rise buildings
- concrete roads and bridge decks, airport runways and taxiways and other extensive areas
- To improve cohesion and workability of concrete mixes where poorly graded aggregates must be used and bleeding, segregation or sand runs occur

Method of Application

- PLASTCONE AIRENT is a chloride free air entraining admixture based on neutralized Vinson resin. PLASTCONE AIRENT acts at the interface between the mixing water and cement/aggregate particles to produce microscopic air bubbles, which are evenly distributed throughout the concrete. The entrained air enhances durability by providing protection. Against the rapid temperature changes found in freezing and thawing conditions and with the use of de-icing salts.

Technical Information

PROPERTIES	RESULTS
Appearance	Hazy white color liquid
Sp. Gravity	1.02 to 1.05 @27°C
pH Value	7 to 8
Chloride Content	Nil
Alkali Content	Typically less than 14 g Na ₂ O equivalent per litre of admixture

This in turn leads to a series of associated benefits

- **Reduced permeability:** The microscopic air bubbles introduced by use of PLASTCONE AIRENT break up the capillary structure within concrete and hence reduce water permeability.
- **Durability:** Reducing the water permeability of concrete offers increased resistance to weather exposure and attack in aggressive environments.
- **Frost resistance:** The addition of PLASTCONE AIRENT produces controlled air space.
- **Compressive strength:** A 15% free water reduction is often possible with PLASTCONE AIRENT. This resultant increased compressive strength normally offsets the anticipated strength loss associated with air entrainment, thus producing air entrained concrete with no increase in cement content.
- **Resistance to salts:** Air entrainment increases the resistance of concrete to surface scaling, which is an adverse effect associated with repeated exposure to marine salts or application of de-icing salts to the concrete surface.

Compliance standard

- IS 9103:1999

Over dosing

- An overdose of double the recommended measure of PLASTCONE AIRENT will increase workability and air content and can result in slight set retardation of the concrete.

Curing

- Normal good curing practice should be adopted.

Packaging

- PLASTCONE AIRENT is supplied in 50 & 200 Kg containers.

Storage

- Minimum of 12 months shelf-life if kept under room temperature (i.e. 27°C).

Note: All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary according to trials and quality of material availability.

For selection of admixture as per your project please visit our smart store in redwop.net.

REDWOP CHEMICALS PVT. LTD.

Head office: 2nd Floor, Pearl plaza Complex, B/S GT Sheth School, Near KKV Hall, 150ft Ring Road, Rajkot- Pin.360005 Gujarat, India.