

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.

Uses:

- To produce air entrained concrete that increased durability and resistance to damage by frost and deicing salts.
- It include concrete roads and bridge decks, airport runways and taxiways and other extensive areas of concrete exposed to potential frost damage.
- To improve cohesion and workability of concrete mixes where poorly graded aggregates must be used and bleeding, segregation or sand runs occur.

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

Product Standard Compliance:

- IS 9103:1999
- BS 5075 Part 2
- BS 4887 Part 1
- ASTM C260

Company Standard Compliance:



Technical Information:

Properties	Specification
Appearance	A clear colorless liquid
Sp. Gravity	1.00 to 1.05
pH	6-8
Chloride Content	Nil
Alkali Content	Typically less than 14.0g Na ₂ O equivalent /litre of admixture

Typical Dosage:

The optimum dosage of PLASTCONE AIRENT to meet specific requirements must always be determined by

trials using the materials and conditions that will be experienced in use. This allows the optimisation of admixture dosage and mix design and provides a complete assessment of the concrete mix.

As a starting point for trials a dosage of 0.08 litres/100kg of cement will typically give an air content of 5% ± 1.5% in a medium workability concrete of 300 - 350 kg/m³ cementitious content. Where cement replacement materials are used they should be included in the cementitious content for purposes of calculating admixture dosage. The presence of PFA or microsilica may increase the dosage required to obtain a particular air content.

Compatibility:

PLASTCONE AIRENT can be used with all types of Portland cements and is generally compatible with other admixtures. It is recommended that all admixtures be added to concrete separately.

Curing:

As with all structural concrete, good curing practice should be maintained.

Overdosing:

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. The ultimate strength of the concrete should not be impaired if advantage is taken of the water reduction and the concrete is adequately cured.

Packaging:

PLASTCONE AIRENT is supplied in 200 litre drums.

Storage & Shelf-Life:

PLASTCONE AIRENT has a minimum shelf life of 12 months in unopened containers under normal warehouse conditions.

Health & safety:





PLASTCONE AIRENT is non-toxic. Any splashes should be rinsed thoroughly with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought.




Fire:

PLASTCONE AIRENT is non-flammable.

Legal Notice:

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	<p>It is the practice of increasing efficiency with which buildings use resources- energy, water and materials-while reducing building impacts on human health and the environment.</p>
	<p>ISO 45001 is the world's international standard for occupational health and safety, issued to protect employees and visitors from work-related accidents and diseases.</p>
	<p>ISO 9001:2015 is a globally recognized standard for quality management systems (QMS). It helps organizations of all sizes and sectors to: Improve performance, Meet customer expectations, Demonstrate commitment to quality, and Identify and improve processes that lack consistency.</p>
	<p>ISO 14001 is the internationally recognized standard for environmental management systems (EMS). It provides a framework for organizations to design and implement an EMS, and continually improve their environmental performance</p>

	<p>This symbol is used to identify Redwop products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gesellschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.</p>
	<p>Our Commitment To The Environment Redwop products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.</p>
	<p>ISO/IEC 17025 enables laboratories to demonstrate that they operate competently and generate valid results, thereby promoting confidence in their work both nationally and around the world.</p>

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