

PLASTCONE AW+

Integral waterproofing
compound



Description:

PLASTCONE AW+ is a chloride free integral waterproofing compound. It is supplied as a light brownish solution which instantly disperses in water. PLASTCONE AW+ disperses the fine particles in the concrete mix, enabling the water content of the concrete to perform more effectively and improving the consistency of the concrete. This produces higher levels of workability for the same water content, allowing benefits such as water reduction and increased strengths to be taken.

Uses:

- To get effective means of reducing concrete permeability and thereby reducing water penetration
- To improve the effectiveness of the water content of a concrete mix
- In all types of low and high rise buildings
- In plaster mortar

Advantages:

- Allows specified strength grades to be met at reduced cement content or increased workability
- Water reduction significantly improves compressive strengths at all ages and enhances durability through the production of low permeability concrete
- Minimizes the risk of segregation and bleeding and assists in the production of a dense, close textured surface, improving durability

Product Standard Compliance:

- IS 2645:2003

Company Standard Compliance:



Technical Information:

Properties	Specification
Appearance	Transparent Brown Color Liquid
Sp. Gravity	1.00 to 1.05
pH	7 to 8
Chloride Content (IS 2645:2003, 3.4)	< 2.0 %
Setting Time (IS 2645:2003, 3.2)	No significant effect on setting time of concrete or mortar.
Permiability to Water (IS 2645:2003, 3.1)	< 15% as compared to 50% max. allowable under IS:2645 compared to control sample
Compressive Strength (IS 2645:2003, 3.3)	Maintains compressive strength equal to control concrete or mortar and can even improve on strength property if full advantage or water reduction poential is utilised.

Application Procedure:

PLASTCONE AW+ can be added into the mixing water or directly into the concrete mixture after 50-70% of the mixing water has been added. The addition of PLASTCONE AW+ to dry aggregates or cement is not recommended. To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 60 seconds is recommended.

Dosage Range:

The optimum dosage of PLASTCONE AW+ to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimization of admixture dosage and mix design and provides a complete assessment of the concrete mix. A starting point for such trials is to use a dosage within the normal typical range of 0.20 to 0.50 Kg /100kg of cementitious material, including PFA, GGBFS and micro silica.

Benefits:

Enhanced Durability: PLASTCONE AW+ reduces the permeability and increases the resistance to weathering and enhances the durability.

Reducing water permeability ('waterproofing'):

One of the most effective means by which the water permeability of a concrete mix can be reduced is to make a large reduction in water- cement ratio. PLASTCONE AW+ can be used to provide such a reduction and to produce a concrete with the benefits of low permeability.

Corrosively: PLASTCONE AW+ Chloride free admixture will neither initiate nor promote corrosion of reinforced steel in concrete.

Overdosing:

An overdose of double the intended amount of PLASTCONE AW+ will result in an increase in retardation as compared to that normally obtained at the intended dosage.

Curing:

Normal good curing practice should be adopted.

Basis of Product Data:

All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Compatibility:

PLASTCONE AW+ may be combined with many other Redwop products. Trials must always be carried out before combining products in specific mixes. Contact Redwop Technical Services for additional information and any specific combinations.

Packaging:

PLASTCONE AW+ is supplied in 1, 5, 10, 20, 50 and 200 liter of containers.

Storage & Shelf-Life:

PLASTCONE AW+ has a minimum shelf life of 24 months provided the temperature is kept under room temperature (i.e. 27°C). Should the temperature of the product fall outside this range then contact Redwop office for advice.

Health & Safety:

PLASTCONE AW+ does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn.

Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

For further information refer the Safety Data sheet available for this product.

PRODUCT FOR PROFESSIONAL USE.

Fire:

PLASTCONE AW+ is water based & non- flammable.

Legal Notice:

The information, and, in particular, the recommendations relating to the application and end-use of Redwop products, are given in good faith based on Redwop's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Redwop's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Redwop reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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.



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.



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.



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



This symbol is used to identify Redwop products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



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.



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.