



NanoPlast AEA

Water reducing and air entraining concrete admixture

Description	NanoPlast AEA is a chloride free air entraining and water reducing admixture based on synthetic surfactant and special polymer. NanoPlast AEA 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.						
Primary applications	<ul style="list-style-type: none"> Roads and bridge decks, airport runways and taxiways and other 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	<ul style="list-style-type: none"> 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 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, further enhancing durability. Excellent air bubble stability allows use with a wide range of aggregate qualities and mix conditions. Typical dosage levels are higher than for standard air entraining admixtures, allowing increased accuracy of dosing and better control in critical situations. Synthetic basis reduces potential for incompatibility problems during dispensing of admixture combinations. 						
Specifications	Complies with ASTM C-260.						
Packaging	210 Ltr. drums, 1000 Ltr. totes and bulk.						
Storage	Store in a dry and cool place below 35°C. Protect from direct sunlight.						
Shelf life	12 months if stored properly in original unopened packaging.						
Properties	<table> <tr> <td>Appearance:</td> <td>Brown liquid</td> </tr> <tr> <td>Specific gravity:</td> <td>1.17 ± 0.01 at 20°C</td> </tr> <tr> <td>Chloride content:</td> <td>Nil to BS 5075</td> </tr> </table>	Appearance:	Brown liquid	Specific gravity:	1.17 ± 0.01 at 20°C	Chloride content:	Nil to BS 5075
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Instruction for use	<p>Dosage: 0.4-0.8 Ltr/100kg of cement. It is advisable to carry out trial mixes to establish the exact dosage rate required.</p> <p>Dispensing: NanoPlast AEA should be added to gauging water prior to its addition to the dry mix concrete or separately to the freshly mixed concrete. When added separately to the freshly mixed concrete further mixing time of 2-3 minutes should be given.</p> <p>Placing: The standard rules of good concreting practice for production and placing must be observed when using NanoPlast AEA concrete.</p> <p>Curing: Fresh concrete must be cured properly. Use NanoCure or wet hessian.</p> <p>Compatibility: NanoPlast AEA is compatible with all types of cement.</p> <p>Effect of over dosing: When accidental overdosing occurs, the retardation of initial set air content and workability increases. During this period the concrete must be kept moist in order to prevent premature drying out.</p>						
Technical Support	Nano Vision offers technical support, services to consultant, end users and contractors. We also provide technical assistance on site.						
Cleaning & Disposal	All tools and equipment should be washed with water immediately after use. Do not dispose of into water or soil but according to local regulations.						
Precautions/Limitations	Do not allow freezing. Shake well before use.						
Health & safety	In case of contact with the skin, wash immediately with soap and water; In case of contact with the eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately, do not induce vomiting. Skin barrier cream, safety goggles and rubber gloves are recommended.						