Expanplast* WP400

Hydrophobic pore-blocking waterproofing admixture

Effects of overdosing

An overdose of double the intended amount of Expanplast* WP400 will result in a significant increase in retardation as compared to that normally obtained at the intended dosage.

The effects of overdosing will be further increased if sulphates resisting cement or cement replacement materials are used.

Compatibility

Expanplast* WP400 is compatible with other Expanchem admixtures used in the same concrete mix. All admixtures should be mixed separately and must not be premixed together; any concrete mix containing more than one admixture should be assessed by the trial mix procedure.

Limitation

The use of Expanplast* WP400 will not make poor quality concrete waterproof, good concrete practice must be followed, good quality sand and crush must be used and minimum cement content should not be less than 300 Kg/m³.

Properties

Appearance : Turbid / Light Brown
Specific gravity : Typically 1.05 at 20°C
Chloride content : Nil to BS 5075 & BS:EN934-2

Instructions for use

Typical performance example

Expanplast* WP400 meets the water absorption requirements of the European Standard BSEN934-2

Many variables in concreting materials and conditions can affect the selection and use of an admixture, trials should be carried out using relevant material and conditions in order to determine the optimum mix design and admixture dosage to meet specific requirements.

A typical performance example from evaluating studies of Expanplast* WP400 is included on this data sheet, the values quoted are representative of results obtained and are provided as illustration of the performance.
Because of the variability of concreting material, the results should only be taken as typical of the performance to be expected. Results quoted are not necessarily directly comparable with results obtained elsewhere for Expanplast* WP400 or other products.

The use of a combination of admixtures in the same concrete mix and or cement replacements may alter the setting time. Trials should always be conducted to determine such setting times.

Example: Concrete grade 45/20, 400 Kg. cement 0.38 w/c

<table>
<thead>
<tr>
<th>Mix</th>
<th>Dosage% WP400*</th>
<th>Dosage% SP432MS*</th>
<th>Absorption %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Nil</td>
<td>1</td>
<td>1</td>
<td>2.80</td>
</tr>
<tr>
<td>With WP400*</td>
<td>1</td>
<td>1</td>
<td>1.20</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>0.60</td>
</tr>
</tbody>
</table>

**Estimating - packaging**

Expanplast* WP400 is available in 210 liter drums and bulk supply.

**Storage**

Expanplast* WP400 has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C. After few days of manufacturing Expanplast* WP400 changes its color turbid to light brown, and the smell of the material will also change, but this change does not effect on quality of product, results of the product will be as per specification.

**Freezing point:** Approximately -6°C

**Precautions**

**Health and safety**

Expanplast* WP400 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 consult the Material Safety Data Sheet available for this product.

**Fire**

Expanplast* WP400 is water based and non-flammable.

**Cleaning and disposal**

Spillages of Expanplast* WP400 should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water.

The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.
Important note
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