PRODUCT DATA SHEET

Intraplast® Z

EXPANDING GROUT ADMIXTURE

DESCRIPTION

An expanding grout admixture in powder form. By introducing micro bubbles into the mix, it produces wet volume expansion and increased fluidity without segregation.

USES

Intraplast Z is used to increase cohesion in cement grouts and is suitable for use in the grouting of:
- Pre-stressed cable ducts
- Rock and soil anchoring
- Bearing plates.
- Pre-placed aggregates.
- Tunnel linings.
- Pre-cast concrete elements.
- Tilt construction wall panels.
- Crack injection

CHARACTERISTICS / ADVANTAGES

- Intraplast Z plasticises the mix with water reduction of up to 20%, thus improving the strength of the grout.
- Gas generated during setting distributes bubbles causing expansion to take place (3%-8% by volume) thus compensating for normal shrinkage. The initial retarding effect of Intraplast Z improves grout penetration, reduces water separation and bleeding.
- The expansive forces generated completely fill voids.
- Non toxic, non chloride.

PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Packaging</th>
<th>20 x 0.75 kg bag</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>20 kg bag</td>
</tr>
<tr>
<td>Appearance / Colour</td>
<td>Powder / Beige</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>1 year if stored in unopened original container</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>Store in dry, cool place</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>~0.7 kg/L</td>
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</tbody>
</table>

APPLICATION INFORMATION

| Recommended Dosage     | Dosage : 1-2% by weight by cement |
|                       | Typical dosage : 1.5% by weight by cement |
APPLICATION INSTRUCTIONS

APPLICATION METHOD / TOOLS

- Add directly to the gauging water and mix with cement.
- The mixture must be stirred continuously.
- For pre-stressed concrete work, a mixing time of 3 minutes with a w/c ratio of 0.42 has been found to give the best results.
- It is not recommended to add sand into the mix.

LIMITATIONS

- High alumina cement and cement containing high content of fly-ash are not suitable for use with Intraplast Z.
- To obtain optimum results (flowability, expansion, bleeding, etc) the suitable w/c ratio and Intraplast Z / cement ratio shall be determined through trial mixes.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

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