PRODUCT DATA SHEET
Sika® Intraplast® N

EXPANDING / FLUIDIFYING GROUTING AID

PRODUCT DESCRIPTION
Sika® Intraplast® N is a balanced blend of expanding, fluidifying, and water-reducing agents for Portland-cement grouts. It produces a slow, controlled expansion prior to the grout hardening.

USES
- Machinery base plates.
- Pre-packed aggregate cavities.
- Rock fissures and bolting.

CHARACTERISTICS / ADVANTAGES
- High fluidity - Sika® Intraplast® N grout is extremely fluid, workable, non-settling, and cohesive.
- Versatile - use Sika® Intraplast® N with all types of grout incorporating Type I, II, or III cement, with or without pozzolanic materials or fly ash, and with or without fine aggregate.
- Controlled, gaseous expansion occurs before initial set and forces the grout into close contact with the surrounding surfaces.

PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Packaging</th>
<th>50 lb (22.7 kg) bag</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance / Color</td>
<td>Gray powder</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>6 months from date of production if stored properly in original, unopened and undamaged sealed packaging</td>
</tr>
</tbody>
</table>

Storage Conditions
- Store dry at 40–95 °F (4–35 °C)
- Protect from moisture. If damp, discard material
- Recommend condition material to 65-85°F (18-29°C) before using

APPLICATION INFORMATION

<table>
<thead>
<tr>
<th>Recommended Dosage</th>
<th>Add 1 % by weight of cementitious material, (Portland-cement and, if used, fly ash)</th>
</tr>
</thead>
</table>
APPLICATION INSTRUCTIONS

MIXING

- Water should be added to the mixer first, followed by Portland-cement, fly ash, admixture, and sand as required.
- Mixing should be of such duration as to obtain a uniform, thoroughly blended grout, without excessive temperature increase.
- No water should be added to the grout to increase any fluidity which has been lost by delayed use of grout.
- It is essential that the water content of the grout be kept as low as possible.
- The water content should generally be less than 5.25 gal/100 lb of cementitious material.
- Do not overwater!

<table>
<thead>
<tr>
<th>Opening</th>
<th>Cement</th>
<th>Fly Ash</th>
<th>Sand</th>
<th>Water</th>
<th>Sika Intraplast N</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1/4&quot;</td>
<td>2 parts</td>
<td>1 part</td>
<td>none</td>
<td>4–5</td>
<td>1 %</td>
</tr>
<tr>
<td>&gt; 1/4&quot;</td>
<td>2 parts</td>
<td>none</td>
<td>none</td>
<td>4½–5½</td>
<td>1 %</td>
</tr>
</tbody>
</table>

1. ASTM C-150
2. ASTM C-350
3. 100 % passing an 8-mesh sieve
4. Gallons per 100 lb cementitious material
5. By weight of cementitious material

- Water requirements will typically be lower than that of a non-Sika Intraplast N mix of equal fluidity.

APPLICATION METHOD / TOOLS

- All pumps and hose fittings should be absolutely watertight to prevent loss of water and subsequent clogging.
- Be sure your batches are so limited in size that placement can be completed within one hour so that as much of the expanding action as possible occurs after the grout is placed.
- The typical mix designs referenced in Mixing serve only as a basis for trial mixes. Actual mix design must be tested prior to use. Proportions are by weight, unless noted.

FORMING

- Where areas to be grouted require forming, forms should be tight and well fitted.
- When using Sika Intraplast N, expansion of the grout should be restrained in order to produce the highest possible density, bond, and strength.
- Top forms should be used where there are open areas.
- Unformed, exposed grout placements will have substantially lower physical characteristics.

LIMITATIONS

- Design mixes should always be tested to verify satisfactory performance, specifically as it relates to strength, bleed, flow and segregation. The use of this admixture will alter physical properties.
- Not recommended as a non-shrink admixture for conventionally placed concrete

BASES OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

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