

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

Packaging	50 lb (22.7 kg) bag
Appearance / Color	Gray powder
Shelf Life	6 months from date of production if stored properly in original, unopened and undamaged sealed packaging
Storage Conditions	<ul style="list-style-type: none"> ▪ 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

Recommended Dosage	Add 1 % by weight of cementitious material, (Portland-cement and, if used, fly ash)
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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 flowability 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!

	Opening < 1/4"		Opening > 1/4"	
Cement ¹	2 parts	1 part	2 parts	1 part
Fly Ash ²	1 part	none	1 part	none
Sand ³	none	none	3 parts	1 part
Water ⁴	4–5	4–5	4 ^{1/2} –5 ^{1/2}	4 ^{1/2} –5 ^{1/2}
Sika [®] Intraplast [®] N ⁵	1 %	1 %	1 %	1 %

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

BASIS 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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or

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replacement of this product exclusive of any labor costs.
NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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