

Sika® Intraplast® N

Expanding / Fluidifying Grouting Aid

Description	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.
Where to Use	<ul style="list-style-type: none">■ Machinery base plates.■ Pre-packed aggregate cavities.■ Rock fissures and bolting.
Advantages	<ul style="list-style-type: none">■ High fluidity - Intraplast® N grout is extremely fluid, workable, non-settling, and cohesive.■ Versatile - use 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.
Packaging	50 lb. multi-wall bag.
Coverage	See mixing

Typical Data *Material and curing conditions @ 73°F (23°C) and 50% R.H.*

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	6 months in original, unopened bags.
Storage Conditions	Store dry at 40°-95°F. Recommend condition material to 65°- 85°F (18°-29°C) before using.
Color	Gray powder
Dosage	Add 1% by weight of cementitious material, (portland-cement and, if used, fly ash)

Construction



PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA 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 DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

How to Use

Surface Preparation

Forming Where areas to be grouted require forming, forms should be tight and well fitted. When using Intraplast® N grout, 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.

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!

Product	Size of Openings			
	1/4 in. or less		Larger than 1/4 in.	
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	4½-5½	4½-5½
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-Intraplast-N mix of equal fluidity.

Application

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.

Typical mix designs 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.

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.

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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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