



PRODUCT DATA SHEET

In-Pakt Construction

Pre-packaged, general purpose, pumpable, non-shrink, cementitious grout

PRODUCT DESCRIPTION

In-Pakt Construction is a pre-packaged, general-purpose, pumpable, non-shrink, non-metallic cementitious grout, formulated from specially graded natural fine aggregates and other carefully selected components. In-Pakt Construction can be used at varying consistencies from dry pack to fluid.

WHERE TO USE

- Grouting machinery base plates and column sole plates
- Grouting anchor bolts, dowels and hand rails
- Repair of pre-cast units
- Infill of pipes and sleeves

CHARACTERISTICS / ADVANTAGES

- Can be mixed and placed from dry pack, plastic and fluid consistencies using relatively low water:cement ratios
- Excellent pumpability
- Non-corrosive, non-chloride, non-metallic
- Excellent resistance to freeze-thaw cycling

APPROVALS / CERTIFICATES

- Ministère des Transports et de la Mobilité Durable du Québec (MTMD) approved
- Meets MTO specification for patching materials
- Meets ASTM C1107, Type C

PRODUCT INFORMATION

Packaging	▪ 25 kg (55 lb) bags* *Custom packaging is available to suit specific project requirement		
Shelf Life	12 months in original, unopened packaging		
Storage Conditions	Material should be stored in a dry covered area protected from the elements		
Density	Wet density		(ASTM C138)
	Plastic	Fluid	
	2130 kg/m ³ (133 lb/ft ³)	2160 kg/m ³ (135 lb/ft ³)	

TECHNICAL INFORMATION

Compressive Strength		Dry pack	Plastic	Fluid	(ASTM C109)
	1 day	35 MPa (5075 psi)	25 MPa (3625 psi)	21 MPa (3000 psi)	
	3 days	45 MPa (6500 psi)	30 MPa (4350 psi)	25 MPa (3625 psi)	
	7 days	50 MPa (7250 psi)	35 MPa (5075 psi)	30 MPa (4350 psi)	
	28 days	65 MPa (9425 psi)	40 MPa (5800 psi)	35 MPa (5075 psi)	
Modulus of Elasticity in Compression		Plastic	Fluid	(ASTM C469)	
	28 days	24.5 GPa (3.5 x 10 ⁶ psi)	18.2 GPa (2.6 x 10 ⁶ psi)		
Shear Strength		Bond strength by slant shear			(ASTM C882)
		Plastic	Fluid		
	28 days	14.5 MPa (2100 psi)	7.8 MPa (1130 psi)		
Pull-Out Resistance		Bond strength of anchors*			(ASTM E1512 & ASTM E488)
	24 hours		45 kN (10100 lb)		
	7 days		60 kN (13475 lb)		
	28 days		70 kN (15725 lb)		
*Tests conducted with a 15 M (#4) steel rebar embedded at a depth of 150 mm (6 in) in a 19 mm (¾ in) diameter hole drilled in 35 MPa concrete.					
Expansion		Hardened height change			(ASTM C1090)
		Plastic	Fluid		
	28 days	0.01 %	0.02 %		
Freeze thaw resistance		Plastic	Fluid	(ASTM C666)	
	28 day	106 %	102 %		
	Excellent durability factor				
Water Absorption		Plastic	Fluid	(ASTM C642)	
	28 days	10.3 %	14.3 %		
Splitting Tensile Strength		Plastic	Fluid	(ASTM C496)	
	28 days	4.0 MPa (580 psi)	3.0 MPa (435 psi)		

APPLICATION INFORMATION

Yield	Per 25 kg (55 lb) bag:			
		Plastic	Fluid	
		0.0127 m ³ (0.45 ft ³)	0.0132 m ³ (0.47 ft ³)	
Flowability		Plastic	Fluid	(ASTM C1437)
		110 %	> 150 %	
Initial Set Time		Plastic	Fluid	(ASTM C191, method A)
		3.0 hours	4.0 hours	

Final Set Time	Plastic	Fluid	(ASTM C191, method A)
	4.5 hours	6.5 hours	
Consistency	Water proportioning per 25 kg bag (55 lb) for grout consistency*:		
	Dry pack	Plastic	Fluid
	Approx. 2.4 L (0.63 US gal)	Approx. 3.3 L (0.87 US gal)	Approx. 3.75 L (0.98 US gal)
	*Water requirement varies with temperature. Increase water slightly as temperature rises and decrease water slightly as temperature decreases.		
Workability time	Dry pack	Plastic	Fluid
	30 minutes	60 minutes	60 minutes

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

WHERE TO USE

- Not recommended for areas exposed to extremely high vibrations.
- Grout must be protected from freezing until after final set.
- Surface temperature of the grouted area must be between 5 °C (41 °F) and 30 °C (86 °F).
- Do not use for void filling applications exceeding 50 mm (2 in). Use MS-S10 SCC or RS-S10 SCC.
- Contact your local Sika Technical Representative for recommendations or information on uses or conditions not listed.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

All surfaces to be in contact with In-Pakt Construction must be free from dust, oil, grease or any other foreign substances that may interfere with the bond of the material.

SURFACE PREPARATION

Remove all delaminated or unsound concrete providing a roughened surface. Clean the area to be repaired with potable water, leaving the concrete saturated but free of standing water (SSD).

MIXING

Place 75 % of required potable water into mixer and slowly introduce entire bag of In-Pakt Construction. Add balance of required water slowly while mixer is running, not exceeding maximum recommended volume of water. Continue mixing for a minimum of three (3) minutes and stop only when material has reached an homogeneous consistency.

APPLICATION

Dry pack

Firmly press or ram In-Pakt Construction into place using metal or hardwood tamping tools and a mason's trowel. Grout consistency when pressed into a firm ball should display no cracking or excessive surface moisture.

Plastic

Rod into place or trowel into area as where material can not flow into place. Grout consistency should be similar to that of a masonry mortar (between 100 % and 115 % flow, ASTM C1437).

Fluid

In-Pakt Construction may be poured or pumped into place. Pour continuously with adequate head pressure or pump into place ensuring that all voids are completely filled. Formwork joints should be caulked with suitable material. Adequately vent high points to allow entrapped air to escape.

CURING TREATMENT

Curing is essential to optimize physical properties of the concrete and minimize plastic shrinkage. Cure immediately after material has reached initial set or immediately after forms are removed in accordance with ACI 308 "Guide to Curing Concrete". Continuously

moist cure for a minimum period of 7 days.
Alternatively, moist cure for a minimum period of 24 hours and apply a curing compound that complies with ASTM C309. Curing is particularly critical in rapid moisture loss conditions such as high temperatures, high winds and low humidity.

LOCAL RESTRICTIONS

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

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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