

PRODUCT DATA SHEET

Parex Thixotropic Joint Filler (TJF)

Stay-in-place pumped mortar specially formulated for filling gaps and voids in precast concrete construction without the need for shuttering.

PRODUCT DESCRIPTION

A pumped mortar purpose-designed for filling joints and gaps in precast concrete units without the need for formwork. The thixotropic qualities of the mortar and non-shrink additives allow it to stay in place without slumping and to provide a complete high strength bond between sections. Before forming an initial set, it can be tooled off to provide a complete and smooth joint.

The material can be used for placing in horizontal and vertical gaps of 5mm to 100mm where a cementitious mortar infill is required and flow grouting is inappropriate. It requires only the addition of water on site and is mixed using a drill and paddle followed by hand or mechanical pump placement. For larger jobs mixer pumps can be used. Parex Thixotropic Joint Filler (TJF) is chloride-free and can be safely used in contact with steel reinforcement.

USES

- Structural support between and beneath precast concrete elements
- Permanent insitu shuttering in joints between precast concrete elements which will be post grouted
- Rapid placement using Duo-Pump systems.

CHARACTERISTICS / ADVANTAGES

- Shrinkage compensated
- High strength
- Thixotropic
- Low sag nature

PRODUCT INFORMATION

Chemical Base	Portland cement based powder mix including special thixotropic and shrinkage compensating components.
Packaging	25kg bags
Shelf Life	6 Months
Storage Conditions	Store properly in dry conditions in undamaged and unopened original sealed packaging
Appearance / Colour	Grey powder
Density	~2100 kg/m ³

TECHNICAL INFORMATION

Compressive Strength	24 hours	35 N/mm ²	(EN 12190)
	7 Days	60 N/mm ²	
	28 Days	70 N/mm ²	

APPLICATION INFORMATION

Mixing Ratio	4.5 Litres per 25 kg bag
Yield	Each 25kg bag of TJF will yield approximately 13.5 litres of mixed material.
Layer Thickness	5mm min / 100mm max
Ambient Air Temperature	+5°C min / +35°C max
Substrate Temperature	+5°C min / +35°C max
Initial set time	~210 minutes @ 20°C
Final set time	~240 minutes @ 20°C

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Preparation

Contact surfaces should be sound and clean. Remove all loose material, heavy mill scale and oily deposits.

Priming

The prepared surfaces should be pre-dampened. Remove any standing water, leaving a surface saturated damp appearance before placing the Parex Thixotropic Joint Filler (TJF).

MIXING

The water requirement to produce the mortar is 4.5 to 5.0 litres of water

Mixing Prior to Pumping

Pour the required quantity of water into a suitable mixing vessel. Slowly add the powder to the water whilst continuously mixing. Mechanical mixing is recommended. Suitable mixers include a slow speed high torque drill with a Mortar Stirrer or a forced action mixer such as Creteangle.

"Duo Mix" Mixing

Mixer pumps, such as the Duo Mix will mix the Parex Thixotropic Joint Filler (TJF) on the pump unit prior to pumping into place. Load the Parex Thixotropic Joint Filler (TJF) into the mixer-pump in accordance with the equipment manufacturer's instructions.

APPLICATION

Hand mixed mortar should be loaded into a suitable pump unit and placed in accordance with the pump supplier's instructions. Duo Mix units will allow the mortar to be mixed and placed continuously from the single unit. Pumping rates of some 12 to 15 litres per minute have been found to be satisfactory. At these rates the build up of hydrostatic pressure in vertical joints will not cause the grout to flow from openings in the jointing area.

Ensure complete filling of the gap and then finish the exposed surface with a dampened steel trowel.

CURING TREATMENT

Parex Thixotropic Joint Filler (TJF) may be applied at temperatures between 5°C and 35°C. In moderate ambient conditions no special curing is necessary. Under hot and high drying conditions curing of exposed surfaces should be undertaken in accordance with good concrete practice.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened/cured material can only be mechanically removed.

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 the 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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.

SIKA IRELAND LIMITED

Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @Sikalreland



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