

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

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 in situ shuttering in joints between precast concrete elements which will be post-grouted.
- Rapid placement using m-tec Duo-Mix mixer-pump systems.

CHARACTERISTICS / ADVANTAGES

- Easily mixed and applied.
- Chloride-free.
- Wide application range (gaps 5 to 100mm).
- Shrinkage compensated.
- High strength.
- Thixotropic.
- Low sag nature.
- Reaction to Fire: EuroClass A1.

PRODUCT INFORMATION

Composition	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 and 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	
Reaction to fire	Class A1		

APPLICATION INFORMATION

Mixing ratio	4.5 to 5.0 Litres per 25 kg bag
Yield	Each 25kg bag will yield approximately 13.5 litres of mixed material.
Layer thickness	5mm minimum / 100mm maximum
Ambient air temperature	+5°C minimum / +35°C maximum
Substrate temperature	+5°C minimum / +35°C maximum
Initial set time	~210 minutes at 20°C
Final set time	~240 minutes at 20°C

BASIS OF PRODUCT DATA

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

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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 matt 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 or Rojo.

m-tec Duo-Mix Mixing and Pumping

Mixer pumps, such as the m-tec Duo-Mix 2000 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 and use 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 EQUIPMENT

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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.

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