THIXOTROPIC JOINT FILLER (TJF)

PAREX
A SIKA COMPANY

Product Code
TP48, Packaging listed overleaf.

Description
TJF is a Portland cement based powder mix including special thixotropic and shrinkage compensating components. The product mix design requires a low water addition to produce a high strength mortar designed for structural support.

TJF is pump placed and will produce in situ structural fill and support. Once placed TJF will stay without shuttering or pointing when pumping pressure is relieved. The thixotropic "stay" characteristic will resist hydrostatic pressure within the joints being filled. TJF 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. TJF is pre-packaged ready for on site mixing only requiring addition of the measured volume of water. The product may be mixed using the drill and paddle technique followed by hand or mechanical pump placement or for larger jobs mixer pumps can be used. TJF is chloride free and can be safely used in contact with steel reinforcement.

Uses include:
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.

Specification Outline
Placing of mortar for structural fill and support shall be carried out using Thixotropic Joint Filler as manufactured by Parex Ltd. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

Accreditations
Parex Limited has an integrated business management system. This is externally accredited by UK CARES to BS EN ISO 9001:2015, BS EN ISO 14001:2015, BS ISO 45001:2018 and BES 6001.

Typical Grout Properties @ 20°C

Compressive Strength

Water addition:
4.5 Litres per 25 kg bag of Thixotropic Joint Filler

Age at Test	1 Day	7 Days	28 Days
	35N/mm^2	60N/mm^2	70N/mm^2

Density 2100 kg/m^3

Setting Times
Initial 210 minutes Final 240 minutes

Durability
When applied in strict accordance with this data sheet, TJF can be classified as a DC 4z material giving a 100 year design life where in service conditions do not exceed the following exposure classes: XC 4, XS 3, XD 3, XF 4, XA 1.

Standards
TJF has been tested in accordance with appropriate parts of the following standard EN12390.

Instructions For Use

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 before placing the TJF mortar.

Mixing
TJF is supplied in 25kg bags. 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.

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Instructions For Use

Duo Mix" Mixing

Mixer pumps, such as the Duo Mix will mix the TJF on the pump unit prior to pumping into place. Load the 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

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.

Precautions

Health and Safety

TJF is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice.
Full health and safety data are given in the Product Safety Data Sheet.

Fire

TJF is non-flammable. Fire class A1.

Yield

Each 25kg bag of TJF will yield approximately 13.5 litres of mixed material.

Storage And Shelf Life

TJF will have a storage life of 6 months in unopened bags when kept in dry conditions at a temperature between 5°C and 35°C. Storage at higher temperatures or high humidity may reduce shelf life.

Packaging And Ordering

TJF is supplied in 25kg valvesack bags.
25kg valvesack bags Product Code TP48

For further information and sales, please contact your local Parex office as listed below.

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