

STOPAQ® FN 2100

Product Information

Generic type: Non toxic, single component, plastic-elastic, water- and gas tight synthetic polyolefin compound. Adheres on dry and wet surfaces of concrete, brick, PVC and others. No primer needed, does not cure, but remains permanently flexible.

Product Description: STOPAQ® FN 2100 is a compound suited for sealing of house wall, pipe- or cable inlets and hollow spaces, against gases, moisture, standing water and running ground water leaks. The compound does not build up internal stresses and expands up to 10% when exposed to water. The FN 2100 compound should always be covered with a 50mm barrier of water resistant- or fire retarding mortar.

Features:

- Requires only minimal surface preparation
- Adheres on wet and dry surfaces
- Fast and easy to apply
- Has no pot-life, does not become hard
- Resists up to 0,3 bar of ground water pressure
- Water- and gas impermeable
- Non Toxic - applicator- and environment friendly
- Does not age

Benefits:

- The sealing remains permanent flexible
- Does not demand special tools for application
- No material waste - paste re-usable
- Immediate sealing: no curing time needed
- Provides permanent and optimal safety
- No fumes, no chemical reactions
- Adjusts to movements of pipes & cables
- Allows adding and removing of conduits at any time

Application examples

Wall Inlets below ground water level: The STOPAQ® FN 2100 Compound is suited for sealing against ground- and surface water intrusion around pipes and cables, leading through building wall penetrations into basements.

Sealing of running water leaks: For permanent stopping of running ground- or surface-water leaks through cable- and pipe wall penetrations.

Wall penetrations inside buildings: Permanent sealing and protection of wall penetrations against gas, fire or flooding is obtained with the STOPAQ® FN 2100 compound, encapsulated by a fire retarding- or water resistant mortar top barrier on each side of the wall.

Multi pipe- & cable inlets: The STOPAQ® FN 2100 sealing compound is excellent for hermetic sealing of multi- purpose, horizontal lead-through wall inlets, where several pipes and cables are coming through one opening.

Product Properties_ STOPAQ® FN 2100


Colour	Green
Density	1,2 - 1,5g/cm ³ (NEN 1183 - 1)
Moisture absorption	10 - 20% (ASTM D 570)
Temperature Ranges	Operation temperature: <ul style="list-style-type: none"> • L-version: -20°C - +30°C • H-version: -20°C - +35°C Application temperature FN2100 material: <ul style="list-style-type: none"> • between +20°C and +35°C
Flashpoint	> 170°C
Adhesion performance Concrete, Brick, PE and PP:	Cohesive fracture (EN 12068) (For other materials, consult STOPAQ® Europe Technical Department).
Space filling criteria	1: Distance between conduit and wall: Minimum 10mm 2: Distance between conduit and wall: Maximum 40mm (In case of larger gaps, consult our STOPAQ® Technical Department)
Electrical resistance	Not applicable - please consult STOPAQ® Europe BV for other Product solutions

Product Properties_ STOPAQ® FN 2100 with STOPAQ® Mortar barrier

STOPAQ® FN 2100	100mm thick + 50mm thick layer of quality mortar or STOPAQ® Mortar FR* (fire retardant)
Pressure resistance:	Max. 0,3 bar back pressure <ul style="list-style-type: none"> • Require STOPAQ® Mortar FR Product- and Safety Data Sheet. For water sealing outside, it is recommended to use STOPAQ® Mortar WR for smooth covering.

General Order Information

Ordering	STOPAQ® FN 2100 comes in 4 variations: <ul style="list-style-type: none"> • 310cc tubes • 0,53kg tubes • 2 kilo bags • 20 kilo cans
Packaging	<ul style="list-style-type: none"> • 310cc tubes (25 per box/675 per pallet) • 0,53kg tubes (20 per box/560 per pallet) • 2 kilo bags (9 per box/243 per pallet) • 20 kilo cans (24 per pallet)
Handling	Handle with care. Keep boxes upright.
Storage	No shelf-life

Application instruction_Preparation		Application instruction _ Injection of STOPAQ® FN 2100	
Application equipment	1 Measuring tape 2 Rubber gloves 3 Sealant application tool set 4 Putty knife, (Blade 50mm wide) 5 Abrading pads (Scotchbrite type) 6 Bottle-brush (ø25mm) 7 Pusher-pin (10x25 x 300mm) 8 Injection tool with 200mm long flexible nozzle	Filling around & between multi-cable bundles	Prior to injection, the inside of the wall inlet and all cable-of the wall inlet and all cable- and pipe surfaces should be rubbed with FN 2100 compound (Apply compound on a 3M-type sponge and rub it on the surfaces) this will improve the adhesion process.
Additional materials needed	1 Backing side supports, square 30 x 30mm or ø30mm round polyurethane foam- cord or injectable PU-foam** 2 Barrier Mortar** or STOPAQ® Mortar FR (flame retarding) ** Available in building markets	Injection tool handling	Insert a pre-heated cartridge FN 2100 into the injection tool and install the flexible injection nozzle. Position the point of the injection nozzle as close as possible to the backside barrier (100 /150mm deep at 6-a'clock position in the wall inlet and start building-up with sealant. Build-up from side to side, from bottom to top, while slowly moving the nozzle outwards. Make sure the application nozzle remains in contact with the sealing material during the injection process. This will minimize the risk for air enclosures in the seal compound.
Ambient conditions Substrate conditions	Ambient temperature should be between +5°C and +30°C All substrates, wall inlet, pipe- and cable surfaces should have a temperature between +5°C to +30°C.	Filling up the seal with FN 2100	FN 2100 thickness: ≥ 100mm (Mortar barrier thickness: ≥ 50mm) Fill up the inlet to 40mm distance below the front wall surface. Smoothen the sealant, remove and clean for excess material until a 50mm clean depth is created.
Hot conduits	Pipes and cables with surface temperatures above 35°C should be thermal insulated before sealing with STOPAQ® FN 2100.	Application of water resistant- or fire retardant mortar barrier.	Then prepare a semi-dry, fast cure cement mortar mix, easy to form and shape. Fill up the wall inlet with the semi-dry mix and smoothen the surface. The wall inlet sealing is completed
FN 2100 compound	The STOPAQ® FN 2100 cartridges or sausages should be pre-heated to 25-30°C prior to application (In bucket with hot water or in STOPAQ® electric (DC) heaters).	Post application routines	
Application instruction_Surface Preparation		Weeping of seal	
General	All surfaces must be free of oil, grease, dirt and poorly adhering matter, such as cement film, paint or other.	STOPAQ® Reliable performance	It might occur that a seal is weeping. (The mortar barrier remains wet) If the weeping has not stopped after 48 hours, post filling should be carried out by making a hole ,12 - 15mm diameter, through the mortar barrier, pushing the hard STOPAQ® injection nozzle into the hole and apply additional FN 2100 sealant. Clean the hole for sealant, wet the mortar and close the hole with a small amount of freshly mixed mortar. More than 10 years in service has proven that the sealing properties of STOPAQ® FN 2100 compound remain unchanged. STOPAQ® FN 2100 is Certified by NSF/ANSI 61.
Concrete & Brick	Clean inlet canals through concrete or brick walls by means of rubbing with an abrading pad, sweeping with a bottle-brush, vacuum cleaning or flushing with clean water.	 <p>STOPAQ® Europe B.V.</p> <p>Gasselterstraat 20 9503 JB Stadskanaal [T] +31 (0)599 696170 [F] +31 (0)599 696177 www.stopaq.com</p>	
Other substrates	Polyethylene, Polypropylene: Abrade the substrate with abrading pad in order to de-gloss and roughen the surface. Dust clean or flush with clean water prior to application.		
Back support barrier	In order to build up a proper seal and to prevent intrusion of soil, insert a backside barrier of poly-urethane foam profile cord at the specified depth of 150mm in the inlet. The foam profile(s) should fill up the gap between the pipe (or cable) and the wall of the inlet. Leak water passing through the barrier will not disturb the application. Cross section of FN 2100 / Mortar FR seal. (Inside of wall: left - Outside of wall: right)		
Multi cable distance creation	Where 2 or more cables are passing through one inlet, the foam backing profiles should be wound around each cable in such a way that a minimal distance of 8 - 10mm is created between the cables.		

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