

CIKOjoint 2000FR

Firestop Acrylic Sealant



Description

CIKOjoint 2000FR is water borne single component intumescent fire rated acrylic based sealant ideal for sealing joints to prevent the passage of flammable gases and toxic smoke in compartment walls and floors. The cured sealant when exposed to fire at temperatures above 120°C, expands in volume releasing water vapor resulting in a decrease of heat transfer.

Advantages & Properties

- Easy to gun and tool
- Bonds to most nonporous construction materials without the need of primer
- Weather and UV resistant
- Watertight
- Paintable
- Excellent flexibility for keeping movement joints
- Permanently elastic
- Long lasting weather tight seal
- Excellent workability characteristics
- High mechanical performance
- Very low and controlled volume shrinkage
- More than 4 hours of fire resistance without using any backfilling materials in certain conditions
- M1 Fire Rating according to NF P 92-501 radiation test
- Non sagging
- Water based contains very low VOC

Applicable Standards

CIKOjoint 2000FR complies with minimum performance requirements of:

- The French VOC requirements for Class A+
- NF P 92-501 radiation test class M1 Fire Rating.
- The VOC content specifications in LEED credit EQc4.1 "Low-emitting products" of SCAQMD rule 1168.
- EN13501-2 classification EI 180 and EI 240 when tested as per EN 1366-4 for more than 4 hours without using any backfilling material under certain conditions.
- ASTM C834 type OP grade NF.

Application Area & Uses

- Expansion joint between many different construction materials.
- Sealing and bonding of Air conditions and ducting system
- Flashing termination and joints
- Sealing joints around windows & doors.
- Sealing concrete control and construction joint.
- Wood, metal aluminium and PVC frames.
- Expansion joints between precast concrete panels.
- Indoor and outdoor applications for pedestrian and traffic areas.
- Sealing of joints and seams, or at certain areas where requirements for fire resistance are mandatory

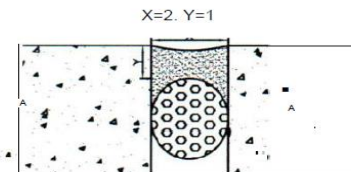
Application Instructions

Surface preparation

All surfaces must be clean, dry and free from oil, grease and all loosely adhering particles.

Clean the joint substrate to make it free from all loose particles, dust, oil grease and any other form of contamination. In case of oil spillage, unbounded concrete, proper treatment and preparation should be carried out to the joint surface such as diamond disk grinding, cutting or chipping. The joint must be free from dampness, loose particles and standing water. Maintain a straight joint with proper edges that can receive a sealant having width to depth ratio of 2:1 accounting for the thickness of the backing rod.

Closed cell-based backup rod must be placed inside the joints. The depth of the sealant shall be maintained by properly placing the backup rod. Fix masking tape on upper face of the concrete. Make sure to keep the width to depth ratio of the joint 2:1.



Primer

Primer is not required over nonporous substrates, however for porous surface apply on the sides of the clean dry joint CIKOjoint 2000FR diluted with 4 to 5 parts of water using a brush and allow to initially skin (10-15min) before applying CIKOjoint 2000FR.

Application of CIKOjoint 2000FR

CIKOjoint 2000FR is applied direct from the cartridge with a suitable sealant gun. Fill the joint and ensure a full contact with the primer on both sides of the joint within its depth. Level the sealant with the adjacent surfaces. Remove the masking tape gently. Surface finishing must be done within maximum 30 minutes of application by light and smooth passing over the surface using water by hand or wet tool.

Physical Properties & Chemical Characteristics

Criteria	Specifications & Test Standards
Consistency	Smooth paste
Colour	White
pH	7.5-9
Specific gravity/ Density	1.58 ± 0.03 gr/cm ³ (ASTM D 792)
Volume shrinkage	10-15 % (ASTM C1241)
Hardness Shore A	40 ± 5
Ambient temperature during application	+5 °C to +40 °C
Width to depth ratio	2:1
Tack free time	15 to 30 minutes (23°C and 50% R.H) (ASTM C 679-03)
Cure rate (mm/day)	Minimum 2 mm/day (23 °C and 50% R.H)
Elongation	> 100% (ASTM D 412)
Tensile strength	≥ 0,4 N/mm ² (ASTM D 412)
Applicable joint width	5 mm up to 50 mm
VOC (EPA 24)	<10g/l

Coverage & Consumption:

CIKOjoint 2000FR provides the below theoretical coverage in linear meter:

Application Width	5mm	10mm	15 mm	20 mm	25 mm
Application Depth	3mm	5mm	8 mm	10 mm	12 mm
Coverage (linear meter)	40 m	12 m	5 m	3 m	2 m

Packaging

CIKOjoint 2000FR is available in 600 mL sausage packed as 12 pieces in sealed boxes.

Shelf life

CIKOjoint 2000FR has a shelf life of 15 months if stored unopened in its original unopened packaging in accordance with CIKO's storage instructions

Storage

Storage should be stored in closed area at temperatures between 5°C and 25°C away from moisture, sun light and heat.

Precautions

- Do not use over damp surface or standing water.
- Avoid application temperature below 5°C and above 35°C.
- Avoid applying over surfaces having temperatures greater than 40°C.
- Should not be used for sealing joints permanently exposed to water.
- It should not be applied in case of risk of rain or frost.

Health & safety

CIKOjoint 2000FR should not come in contact with eyes or to be swallowed. Ensure adequate ventilation and avoid inhalation of vapours.

Applicator should wear suitable cloths, gloves and goggles. Use barrier creams recommended providing additional skin protection. If comes in contact with eyes flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For further technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and offsite services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp-proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

Legal Notice and Warranty

CIKO warrants this product to be free from manufacturing defects and to meet the technical properties stated in the current Technical Data Sheet, if used as directed within its shelf life. Satisfactory results depend not only on quality of product but also on many factors beyond our control. CIKO makes no other warranty or guarantee, express or implied, including warranties of merchantability or fitness for a particular purpose with respect to its product. The sole and exclusive remedy of purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of CIKO. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by purchaser. CIKO will not be responsible for any special incidental, consequential including lost profits or punitive damages of any kind. Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on CIKO's present knowledge and experience. However, CIKO assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. CIKO reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

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All CIKO products are manufactured under a strict management system conforming to and in compliance with requirements of international standards of Quality, Environmental, occupational Health and Safety ISO 9001, ISO14001 and ISO45001.



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