

OLIVÉ INTUCRYL

INTUMESCENT ACRYLIC SEALANT

Technical Data Sheet - Version 4.0 – July '19

PRODUCT DESCRIPTION:

OLIVÉ INTUCRYL is a one part, intumescent, elastomeric putty based on acrylic resins.

In contact with fire, OLIVÉ INTUCRYL forms an inorganic crust which is unaffected by fire (intumescent), providing an insulation fire barrier and stopping the passage of smoke and flames through the sealed joint.

MAIN BENEFITS:

- Withstands fire for 3 hours in lineal joints and 4 hours in piping.
- Prevents the passage of fire and hot gases.
- Halogen, solvent and asbestos free.
- Water base. No odour.
- Highly flexible and water resistant.
- Paintable after curing.
- Adhesion to most common building substrates.
- Durable. Permanently flexible.

PRODUCT CERTIFICATIONS:

OLIVÉ INTUCRYL meets the following specifications:

- ISO 11600-F 7,5P
- CE Marking: EN 15651-1: F-INT
- FIRE RESISTANCE classification: 3 hours according to EN:13501-2. (CIDEMCO-TECNALIA, Report N° 27874)
- Tested according to EN:1366-4 "Fire resistance test for service installations. Linear joint seals". (Equivalent to BS 476, Part 20). (CIDEMCO-TECNALIA, Report N° 27874) Table 1
- Tested according to EN:1366-3 "Fire resistance test for service installations. Penetration seals". (CIDEMCO-TECNALIA, Reports N° 25491 & 13_02508-2-16) Table 2



PACKAGING INFORMATION:

OLIVÉ INTUCRYL is available in the following packaging:

Cartridges 300 ml

24 u / box (56 boxes/pallet)

* European pallets: 120x80 cm

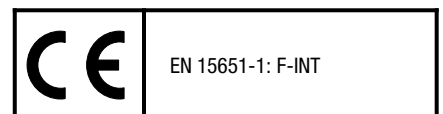
Other packaging is available under request.

COLOURS INFORMATION:

White

STORAGE:

The shelf life is 12 months in its unopened original packaging, in dry conditions and protected from direct sunlight at temperatures between +5°C and +25°C.



ENVIRONMENTAL REGULATIONS:

- French VOC-emission class A+.
- Conforms to LEED® IEQ-credits 4.1 (Indoor Environmental Quality) adhesives and sealants.

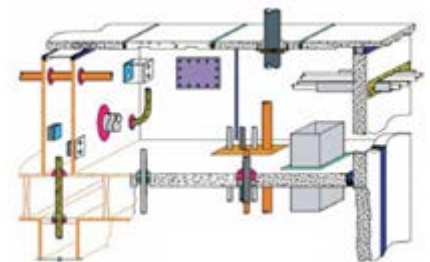


* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

FIELDS OF APPLICATION:

Interior joint seals where a low movement and passive fire protection is required, for example:

- Joints in slabs, walls, fire walls, partition walls, door and window frames, etc.
- Sealing of gaps around pipes, cables, ducts, services and small openings which penetrate firewalls and floors.
- Filling gaps in concrete and plaster, to protect from fire and smoke.



TYPICAL TECHNICAL DATA:

Basis:		Acrylic Dispersion
Consistency:		Non-slump paste
Specific gravity:	(ISO 2811-1)	Approx. 1,56 g/ml
Skin forming time:	(OQ.16-internal)	Approx. 20-30 minutes (at 23°C; 50% R.H.)
Curing rate:	(OQ.18-internal)	Approx. 2-3 mm/24 hr.
Resistance to flow:	(ISO 7390)	≤ 3 mm (at 5°C and 50°C)
Movement capability:	(ISO 9047)	±7,5%
Loss of volume:	(ISO 10563)	≤ 25%
Shore A hardness:	(ISO 868)	Approx. 20
Application temperature:		+5°C to +40°C
Service temperature		-20°C to +80°C

Tensile properties:

ISO 37 (2mm thickness, S2 dumbbells, 7 days 23°C;50% R.H.)

E-Modulus 100%	0,15 MPa
Tensile strength	0,20 MPa
Elongation at break	300 %

These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. The time until complete curing may be extended at lower temperature, lower humidity or increasing film thickness.

FIRE RATING: (Table 1)

Fire resistance according to EN:1366-4

“Fire resistance test for service installations. Linear joint seals”

(CIDEMCO-TECNALIA, Report N° 27874)

Joint dimensions		Backing material	Orientation	Rating acc. EN 1366-4		Classification according EN 13501-2
Width (min.)	Depth (min.)			Integrity(E) (min.)	Insulation(I) (min.)	
10 ⁽¹⁾	8	MW	Vertical	182 ^(*)	182 ^(*)	E 180 EI 180-V-X-F-W 10 to 10

(*) Test stopped after 3 hours

(1) Test sample 1

Legend: MW: Mineral wool–Olivé Fiberfoc

V: Vertical supporting construction–vertical joint; X: No movement; F: Field (Joint made following real conditions)

W: Joint width; C / C: Pipe end configurations: C: Capped (both inside and outside the furnace)

FIRE RATING: (Table 2)

Fire resistance according to EN:1366-3

“Fire resistance test for service installations. Penetration seals”

(TECNALIA, Report N° 13_02508-2-16)

A) PVC piping: 92 mm Ø outside / 32 mm Ø inside. Thickness of wall system: 3,0 mm *

B) PVC piping: 130 mm Ø outside / 50 mm Ø inside. Thickness of wall system: 3,0 mm *

Thickness of Intucryl (mm)	Thickness of PU-476(mm)	Thickness of Intucryl (mm)	Rating acc. EN 1366-3		Classification according EN 13501-2	N° Report
			Integrity(E) (min.)	Insulation(I) (min.)		
30 ^{(2)(A)}	140	30	242	242	EI 240-U/U**	13_02508-2-16-1
30 ^{(3)(B)}	140	30	131	125	EI 120-U/U**	13_02508-2-16-2

(*) Type of service material: PVC-U EN 1329-1. Total length of sealing system 200 mm

(**) Pipe end configurations: U: Uncapped (both inside and outside the furnace) / Tests applicable to lower diameter

FIRE RATING: (Table 2)

Fire resistance according to EN:1366-3

“Fire resistance test for service installations. Penetration seals”

(CIDEMCO-TECNALIA, Reports N° 25491 & 13_02508-2-16)

PVC piping: 120 mm Ø and a penetrating DN50 PVC *

Thickness of Intucryl (mm)	Rating acc. EN 1366-3		Classification according EN 13501-2
	Integrity (E) (min.)	Insulation (I) (min.)	
190	119	119	EI 90 C/C *
92 ⁽²⁾	242	242	EI 240 U/U**

(*) Total length of sealing system 190 mm

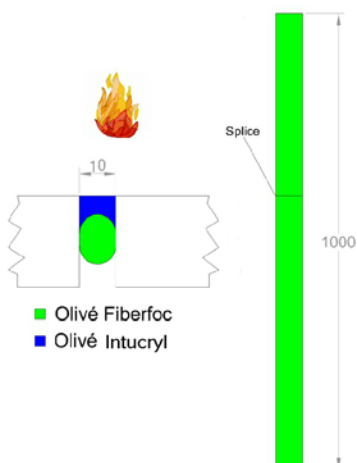
(**) Pipe end configurations: C: Capped (both inside and outside the furnace)

U: Uncapped (both inside and outside the furnace) / Tests applicable to lower diameter

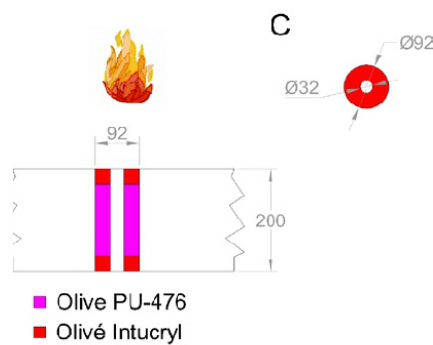
(1) Test sample

Figures – Test samples

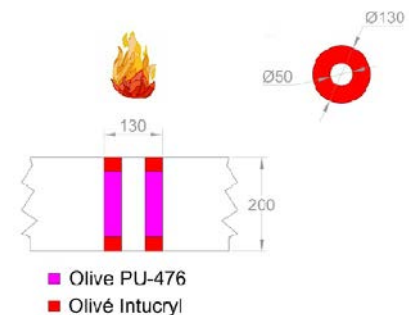
Test sample 1



Test sample 2



Test sample 3



DIRECTIONS FOR USE:

Surface preparation and putty application:

A. Cleaning and joint preparation:

Substrates (joint flanks) must be clean, dry, and free of dust, grease and other contaminant which may affect the adhesion. Non-porous surfaces (such as aluminium, glass, etc.) should be cleaned with a suitable solvent and thoroughly dried with a clean cloth. Porous substrates (such as concrete, brickwork, etc.) must be mechanically cleaned from loose particles. Mask off the joint edges.

B. Imprimación:

OLIVÉ INTUCRYL adheres to most common construction materials without primer. However, a preliminary adhesion test is recommended on every surface. Sometimes, it may be necessary to treat the joint surfaces with a primer to obtain better adhesion performances. Please, contact us for technical assistance.

C. Inserting backing material:

Use the closed cell polyethylene backer foam OLIVÉ CORDON PE or MINERAL WOOL RODS as a back-up material to obtain the required fire rating and to limit the sealant joint depth and avoid the sealant to adhere to the joint base. Choose the right backing strip diameter (at least 25% wider than the joint width)

D. Intumescent putty application:

After substrate preparation, apply the putty with a professional caulking gun, evenly. Observe the eventually used primer's open time before filling the joint.

E. Tooling and finishing:

The joint should be tooled and smoothed before skin formation. Press the sealant and smooth it ensuring good contact with the surfaces to seal. Use neutral soapy water as a tooling agent. Remove masking tape.

Uncured product may be easily removed with warm water. Cured sealant must be removed mechanically.

Remarks:

Do not use OLIVE INTUCRYL on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents (e.g. rubber, chloroprene, EPDM, ...).

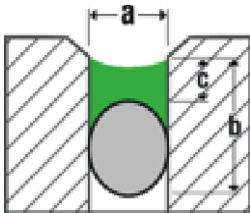
Do not use for continuous immersion in water.

OLIVE INTUCRYL should not be applied when exposure to rain is likely within 24 hours of application.

Not recommended for food direct contact applications.

There is no adhesion to PE, PP, PTFE (Teflon®). In cases of unknown materials, adhesions tests are recommended.

OLIVE INTUCRYL can be overpainted. Due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.

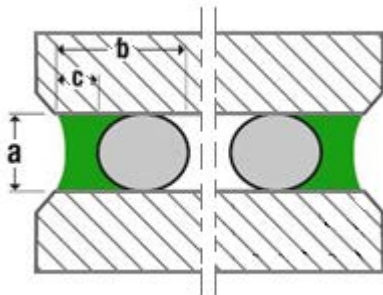


JOINT DIMENSIONING

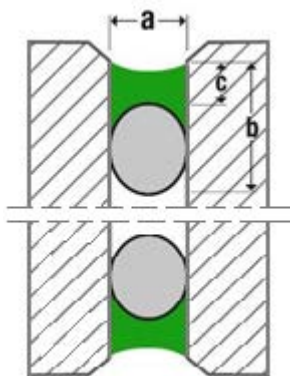
- a** Joint width
- b** Joint depth
- c** Sealant depth

- Silicone sealant
- Backing material

WALL APPLICATION



SLAB APPLICATION



Joint design:

Expansion joints should be correctly dimensioned taking account of dimensional changes in the substrates due to thermal fluctuations. Joint's dimensions should match with the sealant movement capability.

Use closed cell polyethylene backer foam OLIVÉ CORDON PE or MINERAL WOOL RODS as a back-up material to limit the sealant joint depth and avoid three-sided adhesion.

The following general rules/recommendations should be followed:

General statement:	The ideal joint has a 2:1 width: depth ratio
Minimum joint dimensions:	5-6 mm width x 5-6 mm depth.
Up to 12 mm wide:	width = depth
From 12 mm to 24 mm wide:	depth = ½ width
Wider than 24 mm:	depth = 12-15 mm
Expansion joints should not be wider than 50 mm	

Safety:

Use in well ventilated areas and avoid skin and eye contact. Keep out of the reach of children.

The information regarding the safety of the product is available on safety data sheet (SDS). Before using the product, we recommend to read carefully the SDS and the safety labels.

GUARANTEE INFORMATION:

Olivé Química warrants that its product complies, within its shelf life, to its specification.

If any responsibility were to be considered ours, this would be only for any damages and for the value of the merchandise supplied by us and used by the customer. It is over understood that we warranty the irreproachable quality of our products in accordance with our General Conditions of Sales and Supply.

Liability

The information in this document, in particular recommendations regarding the application and final use of our products, are given in good faith based on our knowledge and is the result of tests and experience and are intended as guidelines. It is the responsibility of the user to determine whether the product is suitable for the application. Due to the great variety of materials and conditions, which are beyond our knowledge and control, we recommend carrying out sufficient previous trials.

The property rights of third parties must be respected.

This TDS replaces and supersedes all previous data sheets on the same product.

Olivé

Member of  Wolf Group



olive-systems.com

Central
OLIVÉ QUÍMICA S.A.

Avda. Bertrán Güell, 78
08850 Gavà (Barcelona)
ESPAÑA
T. (+34) 936 629 911
mail@olivequimica.com

OLIVÉ QUÍMICA
FRANCE sarl

Zone Industrielle
Rue Pierre et Marie Curie
59147 Gondcourt (Lille)
FRANCE
T. (+33) 3 20 38 25 54
contact@olivegroupe.fr

OLIVÉ QUÍMICA
PORTUGAL S.A.

Estrada de Alfragide, Lote 107
Bloco A2-R/C - Edifício Mirante
2610-008 Alfragide - Amadora
PORTUGAL
T. (+351) 214 262 083
geral@olivequimica.pt

OLIVÉ QUÍMICA
UK Ltd.

DBH 107
The Bridgewater Complex
Canal Street, Bootle L20 8AH
UNITED KINGDOM
T. (+44) 151 550 0179
uk@olivequimica.com