



DESCRIPTION

Tecsel® Intumescent Mastic Internal Use is modified acrylic resin-based sealant with fire resistant.

PROPERTIES

- Mono-component sealant, no mixing problems.
- Easy application to dry substrates, from +5 °C a +50 °C.
- Good adherence to construction materials.
- Keeps flexible from -20 °C a +80 °C.
- Plasto-elastic, does not transmit stresses to the edges of the joint.
- Skin appears quickly, reducing stains because of the immediate rain just after its application.
- It can be painted or wallpapered few hours after its application.

Up to 4 hours of fire resistance (to see attached detail of results of the test).

APPLICATIONS

- Low movement joints in firewalls and slabs.
- Sealing of connexions, pipes, cable leadthroughs, etc., where a fire protection is required.
- Sealing of firewall doors.
- In general, where is necessary a sealant with resistance to fire.

Tecsel® Intumescent Mastic Internal Use must not be applied in rainy weather or when there is likelihood of rain.

CERTIFICATIONS

CE Mark: EN 15651-1 F EXT-INT.

SPECIFICATIONS

Up to 4 hours of fire resistance (RF/EI), test according to UNE EN-1366-4 and classification according to EN-13501-2.
Fire resistance: UNE 23-093-81 (LGAI 3012831-2).
Smoke classification NF F 16101 (F1), Report 25192 CIDEMCO.

CHEMICAL RESISTANCES

UV and Weather	Good
Polluted environments	Good

TECHNICAL FEATURES

Uncured product

Appearance	Homogeneous creamy paste
Slump resistance (ISO 7390)	0 mm
Waiting time before painting	>1 hours
Component diffusion (NF P 85512).	0 Lm / 1 Nm
Weighted stability (ISO 10590)	≤ 15%
Application temperature	+5 a +50 °C

Cured product (4 weeks at 55% H.R.)

Appearance	Flexible solid
Elastic recovery (ISO 7389)	< 70%
Tensile strength	(ISO 37): 0,08 Mpa
Max/2 resistance to elongation	(ISO 8339): 250%
Max/2 resistance to elongation following heat treatment	(ISO 9046): 250%
Max/2 resistance to elongation following immersion	(ISO 10591): 250 %
Movement accommodation factor	12,5%
Temperature in service	-20 a +80 °C

FIRE RESISTANCE TEST

According to UNE EN 1366-4, classification according to EN-13501-2 (test nº 264455 CIDEMCO)

Width (mm)	Depth (mm)	Joint type	Backing	Integrity (minutes)	Heat insulating (minutes)	Classification (EI)
10	10	1	PE	241	194	EI 180 / E 240
10	10	2	PE	241	241	EI 240 / E 240
20	10	2	PE	241	203	EI 180 / E 240
30	15	2	PE	241	241	EI 240 / E 240
10	10	1	MW	241	241	EI 240 / E 240
20	10	2	MW	241	241	EI 240 / E 240

- 1: Simple joint.
 2: Double joint.
 PE: PE foam strip.
 MW: Mineral wool (density 100 kg/m³).
 (1): Penetration size.

INSTRUCTIONS

Dimensioning of joints:

Their width must be at least 10 times greater than the maximum expected movement.

Depth of sealant must be equal to the width of the joint and never less than 10 mm.

Formation of joints:

A filler should be used in order to avoid adhesion of **Tecsel® Intumescent Mastic Internal Use** to the bottom of the joint, this would exercise unnecessary tension on the sealant. Meanwhile, regulation of its depth is achieved as well as greater yield. The material to be used must be inert, mechanically stable, homogeneous, corrosion-resistant, and must not adhere to either the sealant or contiguous materials.

A particularly recommendable product is closed-cell polyethylene foam, extruded in regular-section strips. **In order to obtain the best results of fire resistance, it is necessary to use mineral wool (density 100 kg/m³).**

Treatment of joints:

The surfaces to be sealed must be clean and dry. If necessary, in addition to mechanical means, cleaning with non-grease solvent such as acetone is recommended.

It is recommended to use a primer on porous materials and general construction.

After primer application wait unless 1/2 hour before applying the sealant.

Any material not known by the user in terms of adhesiveness must first be tested by or consulted with our Technical Department.

Procedure:

Cut off cap from adapter nipple, screw the nozzle on the cartridge, clip the tip of the nozzle to required opening and insert into caulking gun. Fill in the appropriately treated joint with **Tecsel® Intumescent Mastic Internal Use**. In order to avoid messing the edges, they may be protected with masking tape. For a better finish, the seal may be smoothed with a spatula.

Yield:

The following formula is an approximate guideline in order to calculate foreseen yield for a standard cartridge of **Tecsel® Intumescent Mastic Internal Use**:

Where:

$$L = \frac{300}{A \times P}$$

L = Length of sealant in metres obtained per cartridge.

A = Width of the joint in mm.

P = Depth of the joint in mm.

Further treatment:

Tecsel® Intumescent Mastic Internal Use can be painted.

Nevertheless, since a too-rigid or somewhat inflexible paint may cause cracks to appear in the sealant, we recommend that practice is not carried out except when absolutely inevitable, in which case one must be very demanding regarding the paint's characteristics.

STORAGE

Keep in a cool and dry place.

Lifetime: at least 3 years since manufacturing date in original sealed container.

PRESENTATION

300 cc. Plastic cartridges.

COLOURS

White

Grey

CLEANING

Fresh product is easily removed with an organic solvent. When cured it can be removed by mechanical means only.

HEALTH & SAFETY

Tecsel® Intumescent Mastic Internal Use issues volatile monomers analogous to those used in water-based paint, therefore, in enclosed areas, it should be applied with good ventilation.

Due to possible irritation, product contact with eyes or mucous areas should be avoided. If this should happen, thoroughly rinse the affected area with plenty of water and, if necessary, see a doctor.

Cured product may be handled without risk.

Labour hygiene:

Use gloves. In case of splashing, wash with industrial detergent when the product is still fresh.

DO NOT WASH HAND WITH SOLVENTS.

For more information request Safety Data Sheet.