



DESCRIPTION

Tecsel® Plus Intumescent Mastic is a sealant made from neutral alcoxyl reticulated silicon rubber with fire resistant.

PROPERTIES

Tecsel® Plus Intumescent Mastic is one-single component sealant, easy to apply, cross-linkable at room temperature. Easy spray application and it does not slump in joints. Solvent free, low contract while curing. It does not attack to concrete and ferrous metals. Excellent adhesion without primer to a wide range of substrates. Unaffected by water, sun, and in general, by the weather.

Up to 4 hours of fire resistance (EI), test according to UNE EN-1366-4 and classification according to EN-13501-2

See attached detail of the test results.

SPECIFICATIONS

UNE 85232. Sealant E.

DIN 18545. Part 2. Sellado de acristalamiento. Selladores, designación, requerimientos, ensayos. Tipo E.

TT-S-001543 A. Class A: Products resisting up to 50% of the joint's maximum movement.

ISO 11600 F+G 25 LM.

NFP 85305 25 E.

APPLICATIONS

- Sealing all kind of joints with maximum requirements for constructions.
- Dilatation joints in firewalls and slabs.
- Sealing of connexions, pipes, cable leadthroughs, etc., where a fire protection is required.
- Sealing from carpentry to site and from carpentry to carpentry.
- Sealing of firewall doors.
- Automotive, aviation and boat industry.

In general, where is necessary a sealant with resistance to the flame. Use mineral wood as backing.

INSTRUCTIONS

Dimensioning of joints:

Their width must be at least 4 times greater than the maximum foreseen movement.

Depth of sealant is chosen on the basis of the joint's width, according to the following table (in mm):

WIDTH	5/6	7/9	10/12	12/15
DEPTH	5	6	7	8

For joint widths greater than 16 mm. depth must be one half of width.

Formation of joints:

A filler should be used in order to avoid adhesion of **Tecsel® Plus Intumescent Mastic external 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. For joints to be subjected to major stress, we suggest the use of an appropriate primer for each type of substrate:

For porous materials and general construction use.

(See *technical Data*)

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® Plus Intumescent Mastic**. In order to avoid messing the edge, 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® Plus Intumescent Mastic**:

$$\text{Where: } L = \frac{600}{A \times P}$$

L= Length of sealant in metres obtained per cartridge.

TECHNICAL FEATURES

Uncured product

Appearance	Homogeneous creamy paste
Descuelgue (NF P 85501)	0 mm
Skin over time (BS 5889 AP.A)	25 min
Curing rate at 23 °C and 55% H.R.	1-2 mm/day
Volume loss (DIN 52451)	5-6%
Application temperature	+5 a +50°C

Cured product (4 weeks at 23 °C and 55% H.R.)

Appearance	Similar to rubber
Shore A hardness (DIN 53505)	25
Elastic recovery (NF P85506)	90%
Elastic modulus 100% (DIN 53504)	0,38 MPa
(NF P 85507)	0,42 MPa
Tensile strengthn (DIN 53504)	1,25 MPa
(NF P 85507)	0,60 MPa
Elongation at break (DIN 53504)	500%
(NF P 85507)	300%
Movement accommodation factor	25%
Temperature resistance in service	-50 to +150 °C

Chemical resistances

Water, soapy water, saline water	Excellent
Inorganic diluted acids and alkalis	Very good
Mineral oils and grease	Very good
Oil, fuel, hydrocarbons	Very good
Other products	Consult

A= Width of the joint in mm.

P= Depth of the joint in mm.

Further treatment:

Tecsel® Plus Intumescent Mastic may not be painted or varnished

FIRE RESISTANCE TEST

According to **FIRE RESISTANCE TEST according to UNE EN 1366-4**, classification according to **EN-13501-2** (test nº **26445 CIDEMCO -TECNALIA**).

Width (mm)	Depth (mm)	Joint type	Fill	Integrity (minutes)	Thermal Isolation (minutes)	Classification (EI)
10	10	1	PE	241	195	EI 180 / E 240
10	10	2	PE	241	205	EI 180 / E 240
20	10	2	PE	241	241	EI 240 / E 240
30	15	2	PE	241	197	EI 180 / 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).

STORAGE

Keep in a cool and dry place.

Lifetime: 18 months.

PRESENTATION

600 cc. Plastic cartridges.

Boxes with 12 cartridges.

COLOURS

Grey

CLEANING

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

HEALTH & SAFETY

While curing **Tecsel® Plus Intumescent Mastic** releases methanol and ethanol. These vapours must not be inhaled for prolonged periods of time in high levels of concentration. Therefore, the working area should be well ventilated.

Due to possible irritation, all contact of the product with eyes or mucous areas must be avoided. If this should occur, rinse the affected area, thoroughly with plenty of water and, if need be, see a doctor. Rubber resulting after curing may be handled without risk.

Primers used with **Tecsel® Plus Intumescent Mastic** contains flammable solvents at room temperature. Do not smoke or use unprotected flame near the working area. If eyes are splashed, rinse thoroughly with plenty of water, otherwise, see a doctor.

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

DO NOT WASH HANDS WITH SOLVENTS.

For more information request Safety Data Sheet.

NOTA:

Las indicaciones y datos técnicos que aparecen en esta ficha están basados en nuestra experiencia y conocimientos actuales, declinando toda responsabilidad por consecuencias derivadas de una utilización inadecuada. Por ello, nuestra garantía se limita exclusivamente a la calidad del producto suministrado. Esta Ficha Técnica podrá ser actualizada sin previo aviso. (Solicite su actualización en caso necesario.) Para más información solicite hoja de seguridad del producto.