



PASSIVETEC[®] NT SEAL

ACRYLIC SEALANT

DESCRIPTION

Modified acrylic resin-based fire resistant sealant.

CHARACTERISTICS

- Single-component sealant, easily applied at room temperature. It is compatible with most materials used in construction (concrete, wood, brick, natural and artificial stone, etc.).
- Due to its elasto-plastic characteristics, PassiveTec® NT Seal does not transmit stresses to the edges of the joint.



Application:

- General purpose sealant for joints with less than 10% movement.
- For internal perimeter pointing around door and windows frames, where the integrity of fire walls need to be maintained.
- Sealing of construction frameworks.
- Sealing and filling of cracks in plaster or masonry.

TESTED BY

- EN 1366-4 , Classification EN 13501-2 and UNE 23093-81

Resistance to Fire : EN 1366-4, Classification EN 13501-2

	Acrylic sealant PassiveTec® NT					
Width (mm)	10	10	20	30	10	20
Depth (mm)	10	10	10	15	10	10
Joint Type	1	2	2	2	1	2
Backing	PE	PE	PE	PE	MW	MW
Classification	EI 180	EI 240	EI 180	EI 240	EI 240	EI 240

1: Simple Joint

2: Double Joint

MW: Mineral Wool density 100 KG/M3

PE: Polyethylene Foam

TECHNICAL FEATURES

Uncured PassiveTec® NT Seal

Appearance	Homogeneous creamy paste	
Slump resistance (NF P 85501)	mm.	0
Tack free (BS 3712 Part 3.1974)	min	15-20
Skin over time (BS 5889 Ap.A)	min	45-60
Waiting time before painting	hours	> 1
Application temperature	° C	+ 5 to + 50

Cured PassiveTec® NT Seal (4 weeks at 23° C and 55% H.R.)

Appearance	Flexible solid	
Elastic recovery (NF P 85506)	%	<70
Tensile strength (NF P 53504)	Mpa.	0,08
Elongation at break max/2 (NF P 85507)	%	50-75
Movement accommodation factor	%	10
Temperature in service	° C	- 20 + 80
Storage	24 months, dry conditions	

Chemical resistance

UV and weather	Good
Water	Good
Polluted environments	Good

INSTRUCTIONS

Joint Sizing:

Joint 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:

It is necessary that a filler material is used in order to avoid adhesion of sealant to the bottom of the joint to impose yield. The material used must be inert, mechanically stable, homogeneous, corrosion-resistant, and must not adhere to the sealant or contiguous materials.

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.

Installation 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 PassiveTec® NT Seal. 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 to calculate foreseen yield for a standard cartridge of PassiveTec® NT Seal:

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

Where:

L = Length of sealant in metres obtained per cartridge of PassiveTec® NT Seal.

A = Joint width in mm.

P = Joint depth in mm.

INSTALLATION SEQUENCE



Further treatment:

PassiveTec® NT Seal can be painted.

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

NOTE: PassiveTec® NT Seal must not be applied in rainy weather nor when there is likelihood of rain, nor at temperatures below +5°C.



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