

DuPont™ Insta Stik™ Flex+

Flexible Polyurethane Foam Adhesive

FEATURES

Description

DuPont™ Insta Stik™ Flex+* is a moisture-curing, fire rated, one-component polyurethane foam adhesive. It is mainly used for sustainable airtight installation of windows and doors. Due to its impressive flexibility, it copes with window frame movements caused by temperature changes and wind loads without degradation of the airtightness. In addition, the foam adhesive shows good acoustic and thermal insulation performance. DuPont™ Insta Stik™ Flex+ contains an environmentally safe propellant, which complies with the latest EU regulations banning all CFC- and HCFC-propellants. DuPont™ Insta Stik™ Flex+ is labelled with EMI CODE EC1plus, a label that is held only by products with low emissions.

Ease of use

DuPont™ Insta Stik™ Flex+ compatible with common surfaces in the field of window and door installation. For best foam quality the surface temperature must be between +5 °C to +30 °C and the minimum product temperature must be +10°C. The optimal product temperature for DuPont™ Insta Stik™ Flex+ is between +18°C and +25°C. In case of an air temperature of <+15°C or a relative humidity of <+30°C, a slight moistening of the wall surface before applying the adhesive is recommended. (Please see handling notes below).

INSTALLATION

Application

DuPont™ Insta Stik™ Flex+ adhesive system sticks well to most common surfaces such as concrete, render, PVC, wood and aluminium. Prior to spraying the foam, surfaces must be dry, firm, clean and free of dust, grease or loose particles. DuPont™ Insta Stik™ Flex+ is not UV-stable. The adhesive joint must be protected from UV and driving rain. It is recommended to cut the foam just before covering. In cases where the adhesive joint has been exposed to UV for more than 15 days, the surface can be cut or brushed before applying the covering. If too much foam has been removed during the process of brushing/cutting, new foam may need to be applied to assure a fully filled gap.

How to Apply the Product

1. Shake the can vigorously for at least 30 seconds.
2. Screw the gun onto the valve.
3. Put the nozzle on the tip of the gun
4. Open the dosing knob at the rear of the gun dispenser.
5. To extrude the foam, make sure the can is in an upright position with the valve down, carefully pull the gun trigger.
6. Discard the first 10–20g of a fresh can.
7. The applied amount can be dosed by pulling the trigger or by adjusting the dosing knob at the back of the gun.
8. Considering the expansion behaviour of the foam. Don't overfill the joint.
9. After sufficient curing, DuPont™ Insta Stik™ Flex+ can be cut and covered.

Curing

The approximate cut time of DuPont™ Insta Stik™ Flex+ is ~50 minutes. Any fresh foam remaining in the can, can be removed with Great Stuff™ Pro Foam Cleaner*. Cured foam can only be removed mechanically.

Equipment

If the can is empty just connect a new one, if required clean the gun valve and tip. During short interruptions for a couple of hours or a day, you are able to leave the can connected to the gun. Only close the dosing knob at the back. During long interruptions i.e. days or weeks detach the gun from the can and clean both using the Great Stuff™ Pro Foam Cleaner. For best possible performance and foam quality we recommend the use of DuPont recommended accessories.

Available Accessories

Great Stuff™ Pro Gun* (GMID 308918)
Great Stuff™ Pro Foam Cleaner (GMID 357500)

PROPERTIES

Typical Product Properties ¹⁾	Unit	DuPont™ Insta Stik™ Flex+	Standard
Color	-	Light yellow	-
Tack free time	min	10 ¹⁾	TM 1014:2013
Cut time	min	30 ¹⁾	TM 1005:2013
Compressibility	%	≤15 ²⁾	ISO 1856
Resistance to temperature	°C	-40 bis +100	DOW test methode
Thermal Conductivity	W/(mK)	≤0.036	EN12667
Acoustic performance	dB	≥61.4 +/-1.2 (-2; -1; -1; -1)	DIN EN ISO 717-1:2013
Fire performance (b _f ≤20mm)	-	B2	DIN 4102
Water vapor diffusion μ	-	6	EN ISO 12572
Compensation of movements (compression, tension) at +23°C and -10°C	%	+/- 12.5	DOW test methode
Airtightness (30mm joint width)	-	a ≤0.1 m ³ /[m ³ h(daPa) ^{2/3}] airtight	DIN 18542 DIN 4108-2
UV-resistance	weeks	≤2	-

1) Test results are based on fresh adhesive, applied @ 23°C and 50% rh with a bead width of 30mm.

2) Measured after 24 hours conditioning @ 23°C and 75% compression.

DuPont™ Insta Stik™ Flex+ has been tested according to ÖNORM B 5320 "installation of windows and doors into walls". The test program covers an airtightness as well as a driving rain resistance test before and after aging. During the aging period, the foam is exposed to wind load and temperature cycles.

In combination with DuPont™ LiquidArmor™ (external liquid sealant) but also with a driving-rain resistant tape, DuPont™ Insta Stik™ Flex+ passed the system test performed on a real building element. When using the airtight DuPont™ Insta Stik™ Flex+ foam sealant to fill the building joint, there is no need to apply an interior airtight tape.

HANDLING

Important

Note that the curing behaviour of the foam can change with ambient conditions (temperature and humidity). For fast and homogeneous foam curing humidity is needed, but excessive moistening may negatively affect the bond strength and shall be avoided (use a vaporizer and avoid droplet formation). The cured foam is resistant to temperatures in the range of -40°C to +100°C. The foam exhibits a high durability, if protected from direct sunlight i.e. UV radiation.

Precautionary Statements

Read and follow the entire Installation and Handling section and the Safety Data Sheets (SDSs, formerly MSDSs or Material Safety Data Sheets) carefully before use. They contain important information on applicable safety regulations and the provisions on the protection of health. Material safety data sheets are revised regularly – please request and note the latest version before using/processing or obtain directly at: www.dupont.com (SDS Finder).

Shelf Life and Storage

Always store and transport the cans in an upright position and in dry conditions. Protect the product and accessories from direct sunlight.

Storage temperature: +5°C to +25°C

Shelf life: 18 months

Packaging

Tinplated steel cans 750ml, box of 12 cans each
DuPont™ Insta Stik™ Flex+ Gun Foam Adhesive (GMID 12014381)

Supplemental Information

Visit www.building.dupont.com or contact a local DuPont representative for more specific instructions.



DuPont™ Insta Stik™ Flex+ foam adhesive is very sticky and will adhere to most surfaces and skin. Do not get foam on skin. Cover all skin, wear long sleeves, gloves, and goggles or safety glasses.



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