THRAKON

CLIMAPLUS STICK

SINGLE COMPONENT LOW EXPANDED POLYURETHANE FOAM

DESCRIPTION

Single component (1K) aerosol polyurethane adhesive foam, curing swiftly with moisture. Providing very fast and powerful adhesion for various construction materials, filling gaps and isolating frames of windows and doors. Highly recommended for heat insulation systems
It does not contain any propellant gases which are harmful to the ozone layer.

FIELDS APPLICATION

Mounting heat insulation panels and filling voids during adhesive application.
Wooden type construction materials adhered to concrete, metal, etc.
Applications that need minimum expansion.
Mounting and isolating window and door frames.
Wall plugging

ADVANTAGES-FEATURES

- Powerful adhesion to polystyrene heat panels (XPS and EPS)
- Instant adhesion and within two hours
- Ready to use in aerosol can
- More economical
- Minimum adhesion for each can: 14m^2 heat insulation panel
- Minimum expansion during drying period
- After dried, no further expansion and shrinkage
- Fire Class B3 according to DIN 4102
- No more extra weight to the building construction
- High yield up to 55 litres depending on temperature and humidity
- Minimum 14 m^2 heat insulation panel adhesion for each can
- Usable at low temperatures (0°C)
- It does not contain any propellant gases which are harmful to the ozone layer
- Lighter than plaster alternative materials, used in heat insulation systems

APPLICATION

Optimal can temperature is +20 °C. Application (ambient) temperature must be between -0°C to +30 °C. Shake the can well before use and screw the can onto an applicator gun. Hold the can upside down and activate the foam by pressing the valve.

The output of the foam can be regulated with the trigger and controlled with the adjustment screw on the back side of the gun. Fresh foam can be cleaned by cleaner. Cured foam can be cleaned barely mechanically. Paint or coat the cured foam for best results in outdoor applications.

SUB-LAYER PREPARATION

The substrate must be dry, cleaned of dust, loose particles, oils etc. It is recommended the cleaning of joint with paint brush or special brush and after that we blow with compressed air.

NOT RECOMMENDED

Prolonged exposure to direct sunlight (UV radiation) may cause discoloring. Avoid application below -2°C and above +30°C. Storage above +30°C and below +5°C shortens shelf life.

Lower temperatures decreases yield and curing time. Should be stored and transported in vertical position. Should be kept in room temperature for at least 12 hours before the application.

PRECAUTIONS

Contains Diphenylmethane-4, 4′-Diisocyanate. Harmful by inhalation. Irritating to eyes, respiratory system and skin. If swallowed seek medical advice immediately and show the product or label. Wear suitable protective clothing and gloves. Do not breathe spray/vapor. Use only in well-ventilated areas. Keep away from direct sunlight and do not expose at temperatures over 50°C. Do not pierce or burn the can even after use. Keep away from sources of ignition and children. 15 months self life if stored at room temperature.

CLEANING OF TOOLS

The tools should be cleaned thoroughly as much as the material is still fresh with water. After curing of the materials, the tools are cleaned mechanically.

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TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Base			Polyurethane Prepolymer
Curing System			Moisture cure
Specific Gravity	(Kg/ m3)	(ASTM D1622)	21±3
Tack-free time (1 cm width)	(min)	(ASTM C1620)	6±2
Cutting Time (1cm width)	(min)	(ASTM C1620)	20 to 45
Cure-Time	(Hours)		24
Foam Colour			Light Pink
Shear Strength	(kgf/cm²)		82 kgf/cm²
Yield	(Lt)	(ASTM C1536)	50 to 55
Fire Class of the Cured Foam		(DIN 4102-1)	B3
Expanding volume	(%)		Max.10
Thermal Conductivity	(W/m.k)	(DIN 52612)	0,036(at 20°C)
Compression Strength	(MPa)	(DIN 53421)	0,03
Water Absorption	(%)	(DIN 53428)	max. 1 vol
Temperature Resistance	(°C)		-40 to +100
Application Temperature	(°C)		0 to +30
Shelf Life	(Months)		15

Note: *The measurements were taken in laboratory environment under a temperature of +23^{0}C, Relative humidity 50 % and without ventilation. It is possible for them to vary depending on the conditions prevailing at the worksite, such as temperature, humidity, ventilation, absorbability of the substrate.*