



"FLEXTRA"[®] EXTERIOR MULTIPURPOSE THERMOPLASTIC SEALANT

GENERAL DESCRIPTION

Extra-durable thermoplastic architectural one component sealing compound. Dries by solvent evaporation.

INTENDED USES

Used to seal joints between two perpendicular surfaces subject to thermal movement around door and window frames, sidings and glass in window frames.

"FLEXTRA" has a super adhesion to steel, galvanized steel, metal, painted or stained wood, natural, painted or anodised aluminum, concrete, masonry, glass, fibreglass and vinyl (PVC).

REMARKS:

- Do not use on polyethylene, polypropylene, recycled plastic, Teflon or other comparable materials;
- Does not withstand immersion (tank).
- Do not use on floor joints where abrasion will occur;
- Do not use in contact with surfaces such as asphalt or tar products and insulation panels (polystyrene, etc.) which can be damaged by solvents;
- For exterior use only

CHARACTERISTICS

- It is resistant to normal weathering conditions such as rain, sunlight, snow, ultraviolet radiation, ozone, atmospheric contamination and pollution.
- The performances of "FLEXTRA", as well as its easy use make it an ideal choice for numerous utilisations. Its professional quality makes it the best choice for handymen.

ADVANTAGES

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| ⇒ Professional quality with excellent life expectancy. | ⇒ Does not contain silicone. |
| ⇒ Multipurpose with a super adhesion on many construction materials, including glass. | ⇒ Remains flexible with an excellent and permanent elasticity up to -40°C (-40°F). |
| ⇒ Ease of application, does not generally require priming. | ⇒ Can be stretched out to 1400% (ASTM D-412) without breaking. |
| ⇒ Rapid skin formation on which dust will not adhere. | ⇒ Does not require painting; however it can be painted over 24 hours after application (latex paint). |
| ⇒ Can be applied on vertical, horizontal or overhanging surfaces without subsiding or sagging. | ⇒ Withstands weathering, ultraviolet rays and exterior temperature changes. |
| ⇒ No staining of surrounding surfaces. | |
| ⇒ Resistant to rain upon its application. | |
| ⇒ Free of air bubbles (1). | |

(1) REMARK: Due to the MULCO's expertise with the thermoplastic sealants, "FLEXTRA" is manufactured, put in cartridges, stored and delivered to our customers in such a way that the paste is **free of air bubbles** and is extruded uniformly and constantly. However, it happens sometimes that absorbent or porous surfaces cause the appearance of bubbles in the joint of the sealant during its drying; **it is highly recommended to do a test on a small area, to let it dry for few days, to observe the results. If the results are good, you can continue with the application of the Flextra, however, if there is a formation of bubbles, the Mulco Supra Elite is the best product for your work.**

STORAGE AND APPLICATION TEMPERATURE

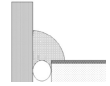
"FLEXTRA" does not deteriorate below freezing point. Anyhow, since its viscosity increases when the temperature drops, it is recommended to store it in a dry place where the temperature is between 10°C (50°F) and 30°C (86°F) to make its use always possible. Under these conditions, the sealed cartridges could be preserved for 3 years.

"FLEXTRA" can be applied in winter as well as in summer. Anyhow, to make its use easier, the product must be at a temperature higher than 5°C (40°F).

SURFACE PREPARATION

There must be a free space between the two materials to permit their dimensional variations. Once applied, the sealant caulks the aperture. It will get compressed or stretched out depending on the movement of the materials. To determine the size of the joint, one must take into consideration the expansion or the contraction the materials will be subjected to with humidity and temperature variations. It must also be noted that some materials have greater dimensional variations than others. If possible, apply **"FLEXTRA"** whenever the size of the aperture between the materials is in-between.

When the joint covers an aperture of 6 mm (1/4 in.) or larger, the joint must be sustained by a backing rod in polyethylene. The diameter of the backing rod must be approximately 3 mm (1/8 in.) wider than the width of the joint to permit compression.



New metal and solvent resistant oily surfaces must be washed with acetone and dried up. Scrape rusty metal with a metallic brush prior to cleaning.

Surfaces sensitive to solvents such as vinyl or dirty plastic materials must be washed out with a soapy solution, then rinsed and dried up.

Concrete and masonry must be scraped with a metallic brush so as to get a sound, firm, clean, stainless surface.

If the application of **"FLEXTRA"** is to be made at a temperature lower than 5°C (40°F), the surface must be at a temperature at least 3°C (5°F) higher than dew point. The surfaces must be free of frost or ice.

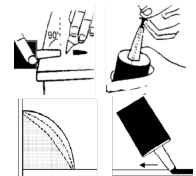
If an old sealant or putty is present, it must be taken off. The surface must be in a seemingly new, firm and clean state. It must also be free of creosote, oil, grease, wax, silicone or silicone based product, asphalt or bitumen based product (coating, adhesive, etc.), rust, any loose or foreign material or any material soluble in solvents.

RECOMMENDED PRIMER

"FLEXTRA" does not generally require priming on most building materials such as: steel, galvanized steel, natural, painted or anodised aluminum, concrete (28 days old), glass, fibreglass, masonry, painted or stained surfaces including wood, vinyl sidings and windows and many common building materials.

DIRECTIONS FOR USE

Cut the nozzle of the cartridge at right angle (90°), a little narrower than the width of the desired joint. Pierce the aluminum patch sealing the cartridge inside the nozzle. Use a caulking gun and apply with a uniform and adequate pressure so as to give the joint a convex form.



"FLEXTRA" must not be smoothed or formed to avoid tensions in the product during drying time. During the extrusion of **"FLEXTRA"**, the angle between the gun and the joint to be made must be approximately 45°. Pull the tip of the gun away from the joint, as illustrated.

Make sure the sealant comes into contact with each surface on a width of at least 3 mm (1/8 in.).

Example of minimal required widths for **"FLEXTRA"** joints with various exterior materials per 10 feet lengths:

Steel, aluminum, concrete and painted or stained wood:	6 mm (1/4 in)
Brick, masonry and glass:	6 mm (1/4 in)
Vinyl (PVC):	12 mm (1/2 in)

COVERAGE

Linear metres per 300 mL cartridge:

Depth (mm)	6	8	10	12	14	16
Width (mm) 6	11	8	6.4	5.3	4.5	4
8	8	6	4.8	4	3.4	3
10	6.4	4.8	3.8	3.2	2.7	2.4
12	5.3	4	3.2	2.7	2.3	2

Linear feet per 300 mL cartridge:

Depth (in.)	1/4	3/8	1/2	5/8
Width (in.) 1/4	31	20.7	15.5	12.4
3/8	20.7	13.8	10.3	8.3
1/2	15.5	10.3	7.7	6.2
5/8	12.4	8.3	6.2	5

PRODUCT DATA

PRODUCT TYPE:	Thermoplastic architectural one component sealing compound. Dries by solvent evaporation.	
GENERAL APPEARANCE:	Thixotropic and homogeneous paste, free of lumps and easy to extrude.	
COLOURS:	Consult our colour guide.	
STANDARDS:	Meets the requirements of ASTM C920, Type S, Grade NS, Class 25, Use NT Surpasses the elasticity and adhesion traction criteria after cyclical treatment of the latest edition of the repealed CGSB standards: 19-GP-5M (acrylic and solvent); 19-GP-14M (butyl); CAN/CGSB -19.13-M87 (category 25) (silicone, polyurethane, polysulfide, 1 part); CAN/CGSB -19.17-M90 (acrylic latex); CAN/CGSB -19.24-M90 (silicone, polyurethane, polysulfide 2 parts).	
VISCOSITY:	1 000 000 cP (Manufacturing specification, working viscosity may vary).	
FREEZE-THAW STABILITY:	"FLEXTRA" is not deteriorated by freeze.	
CLEANING AGENT	(before drying) : Use mineral spirits. dry product) : Use a putty knife and mineral spirits or other effective solvent (too strong solvent may damage other surfaces) (skin contact) : As soon as possible, wash with mineral oil, then wash carefully with soapy water, and rinse. (dry product surface) : If surface seems to have yellowed, greyed or faded, a contaminant may have deposited on the product surface. Use a cleaner for vinyl surfaces containing Sodium Tripolyphosphate (STPP) or another strong water-based cleaner.	
FLAMMABILITY:	At application: Dry:	flammable; combustible.
APPLICATION METHOD:	Manual or pneumatic caulking gun.	
APPLICATION SURFACE:	Outdoor vertical or horizontal joints.	
EASE OF APPLICATION:	ASTM C1183 :	18 mL/min (easy).
PERMISSIBLE TEMPERATURES DURING THE APPLICATION:	Product: Surface:	5 to 30°C (40 to 86°F) -30 to 40°C (-22 to 100°F)
MINIMUM SIZE:	Width and depth:	6 mm (1/4 in).
MAXIMUM SIZE:	Width: Depth:	16 mm (5/8 in); 10 mm (3/8 in).
SLUMP OF SEALANT:	ASTM D2202 :	0 mm.
SERVICE TEMPERATURE:		Minimum: -40°C (-40°F); Maximum: 50°C (122°F).
HARDNESS (SHORE A):	ASTM C661 :	40.
ELONGATION BEFORE RUPTURING:	ASTM D412 :	1 400%.
LOW TEMPERATURE FLEXIBILITY:	CAN/CGSB -19.0-M77 method 11.1	pass -30°C (-22°F).
TENSION STRENGTH:	ASTM D412 :	3 MPA (435 psi).
ADHESION PEEL STRENGTH:	ASTM C794 :	Aluminum: 8,1 KN/m; Glass: 7,4 KN/m; Concrete: 7,9 KN/m.
UV RESISTANCE:	ASTM C793 :	Excellent.
DENSITY :	1,0 kg/L	
FLASH POINT:	28°C (82°F)	
DISPOSAL:	Consult your municipality in order to dispose of paint residues according to environmental regulations. Do not pour down a drain or storm sewer.	

LIMITATIONS OF USE

Before using the clear or the translucent product, test the resistance of the siding colour, the colour of some materials wash out by solvents and will yellow or colour the sealant.

Does not adhere to polyethylene, polypropylene, recycled plastic, Teflon or other comparable materials.

Make sure the joint variation does not exceed the "FLEXTRA" elasticity.

When "FLEXTRA" is painted, the paint may crack if "FLEXTRA" supports a movement higher than the paint elasticity.

The drying time of "FLEXTRA" depends on temperature, relative humidity and ventilation.

The shelf life is diminished by warehousing over 25°C (77°F).

Not for joints submerged in water for prolonged periods of time.

Use outdoors only; do not use inside houses.

When possible, the use of opaque colour is preferable to the use of clear or translucent product.

Adhesion on material not specifically mentioned cannot be guaranteed. It is up to the customer to make his own performance tests or to consult our technical department.

PRECAUTIONS AND SAFETY MEASURES

CONTENTS MAY CATCH FIRE. MAY IRRITATE EYES AND SKIN. Do not smoke. Do not get in eyes, on skin or on clothing. Use only in a well-ventilated area. Keep away from flames, such as a pilot light, and any object that sparks, such as an electric motor. Keep out of reach of children. Wear eye/face protection or chemical splash goggles. Use chemical-resistant, impervious gloves. **These warnings encompass the product series. Prior to use, read and follow product-specific SDS and label information. FIRST AID TREATMENT:** Contains: xylene; ethylbenzene; white mineral oil (petroleum); proprietary linear triblock copolymer; titanium dioxide; nepheline syenite; carbon black and toluene. If swallowed, call a Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes. If on skin, rinse well with water. Sanding and grinding dusts may be harmful if inhaled. Inhalation of high concentrations of vapour may affect the central nervous system. Repeated exposure to high vapour concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. High vapour concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Keep container tightly closed and sealed until ready for use. For workplace use, an MSDS is available from your retailer or by calling 1-800-463-7426. EMERGENCY SPILL INFORMATION: 514-645-1320.

LIMITED WARRANTY

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