



# TECHNICAL DATA

PRODUCT CODE

114XX0

Technical data # 20060531

## «MULCO PVC»

### DESCRIPTION

Professional grade, poly-elastomeric, non-flammable moisture neutral curing silicone sealant.

**REMARKS:** → does not withstand immersion (tank) or abrasion (foot traffic);  
→ not to be painted.

### INTENDED USES

«MULCO PVC» can be used to seal outdoors or hidden joints of PVC doors and windows components. It also has an excellent adhesion to a variety of construction surfaces such as: steel, natural, painted or anodized aluminum, painted or stained wood, concrete or masonry, glass or fiberglass.

### ADVANTAGES

- ⇒ Non-flammable.
- ⇒ Weak odor.
- ⇒ Can be applied on vertical or horizontal, overhanging surfaces without subsiding or sagging.
- ⇒ Ease of application without normal need of primer.
- ⇒ Professional quality with an excellent life expectancy.
- ⇒ No staining of surrounding surfaces.
- ⇒ Allows joint movement up to  $\pm 25\%$  of the original joint width.
- ⇒ Remains flexible with a superior and permanent elasticity.
- ⇒ Withstands weathering, ultraviolet and exterior temperature changes.
- ⇒ Withstand temperatures between  $-60^{\circ}\text{C}$  ( $-75^{\circ}\text{F}$ ) and  $230^{\circ}\text{C}$  ( $450^{\circ}\text{F}$ ) without any loss product properties.

### STORAGE AND APPLICATION TEMPERATURE

«MULCO PVC» does not deteriorate below freezing point. Anyhow, it is recommended to store it in a dry place the temperature of which is between  $5^{\circ}\text{C}$  ( $40^{\circ}\text{F}$ ) and  $30^{\circ}\text{C}$  ( $85^{\circ}\text{F}$ ). Thus, the sealed cartridges of «MULCO PVC» could be preserved for 12 months. «MULCO PVC» can be applied either in winter or in summer at a temperature between  $-31^{\circ}\text{C}$  ( $-23^{\circ}\text{F}$ ) and  $60^{\circ}\text{C}$  ( $140^{\circ}\text{F}$ ).

### SURFACE PREPARATION

The space existing between the two materials is essential to permit their movements caused by the changes of temperature and humidity. Once applied, the sealant caulks the aperture. It will get compressed or stretched out depending on the movement of the materials. Pay attention to the fact that some materials have more considerable dimensional variations than others.

If possible, apply «MULCO PVC» whenever the size of the aperture between the materials is in-between.

When the joint covers a 6mm (1/4 in.) or wider aperture, it must be sustained by a backing rod in polyethylene the diameter of which should be about 3mm (1/8 in.) or wider than the width of the joint so as to allow compression.



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

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 an old sealant or putty is present, they must be taken off. The surface must be in seemingly new, dry, firm and clean state. It must be also free of creosote, oil, grease, wax, rust, any loose or foreign material.

If the application of «MULCO PVC» is to be made at a temperature lower than  $5^{\circ}\text{C}$  ( $40^{\circ}\text{F}$ ), the surface must be at a temperature at least  $3^{\circ}\text{C}$  ( $5^{\circ}\text{F}$ ) higher than dew point. The surfaces must be free of frost or ice.

### REQUIRED PRIMER

«MULCO PVC» does not require priming on most building materials surfaces as: steel, galvanized steel, natural, painted or anodized aluminum, concrete (28 days old), fibreglass, masonry, painted or stained surfaces including wood, vinyl siding and windows and many common building materials.

**APPLICATION**

Cut the screwed end of the cartridge, but keep the threads to screw the nozzle.

Cut the nozzle of the cartridge at right angle (90°), a little narrower than the width of the desired joint.

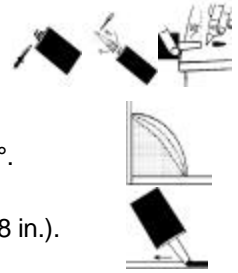
Use a caulking gun and apply with a uniform and adequate pressure.

During the extrusion of «MULCO PVC», the angle in-between the gun and the joint must be about 45°.

Pull the tip of the gun away from the joint, as illustrated.

Ensure that the sealant comes into contact with each of the surfaces on a width of at least 3 mm (1/8 in.).

If tooling is necessary, it must be done immediately as surface will skin in 10 minutes.

**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

**TECHNICAL GUIDE**

<b>GENERAL APPEARANCE:</b>	Homogeneous paste without lumps, easy to be extruded.
<b>COLOUR:</b>	White and translucent .
<b>COMPOSITION:</b>	Oxime silicone polymers.
<b>CLEANER (wet product):</b>	Use mineral spirits before «MULCO PVC» dries and hardens.
<b>CLEANER (dry product):</b>	Use a putty knife and a silicone stripper.
<b>CLEANER (skin contact):</b>	Whenever possible, wash with mineral oil, then wash carefully with soapy water and rinse.
<b>FLAMMABILITY:</b>	At application: ..... non-flammable; Dry: ..... non-flammable.
<b>FREEZE-THAW STABILITY:</b>	«MULCO PVC» is not deteriorated by freeze.
<b>APPLICATION METHOD:</b>	Caulking gun.
<b>APPLICATION SURFACE:</b>	Indoor and outdoor, vertical or horizontal joints.
<b>MINIMUM SIZE:</b>	Width and depth: ..... 6 mm (1/4 in.).
<b>MAXIMUM SIZE:</b>	Width: ..... 25 mm (1 in.); Depth: ..... 10 mm (3/8 in.).
<b>VERTICAL JOINTS SAGGING:</b>	CAN/CGSB-19.0-M77 method 7.1: ..... inferior to 3 mm.
<b>TACK FREE TIME:</b>	10 minutes.
<b>INITIAL SETTING TIME:</b>	For 3 mm thickness: 24 hours at 25°C (77°F) and 50% relative humidity.
<b>COMPLETE SETTING TIME:</b>	3 mm thickness per 24 hours at 25°C (77°F) and 50% relative humidity.
<b>SERVICE TEMPERATURE:</b>	Minimum: ..... -40°C (-40°F); Maximum: ..... 177°C (350°F).
<b>HARDNESS (shore A):</b>	CAN/CGSB-19.0-M77 method 8.2: ..... 25.
<b>TENSION STRENGTH:</b>	CAN/CGSB-19.0-M77 method 14.6: ..... 1,2 M Pa. (180 psi.).

**RESTRICTIONS**

The drying time of «MULCO PVC» depends on temperature, relative humidity and ventilation.

Do not use on frozen or damp surfaces.

On plastics, an adhesion test should be conducted by the user to confirm that the adhesion of the product is sufficient.

Make sure the joint variation does not exceed the «MULCO PVC» elasticity.

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

Insure that glass surfaces are free of lubricating oil.

## RESTRICTIONS (continued)

«MULCO PVC» is destined for exterior uses. Yellowing might appear if the product stays away from the sun for several months. However, the other physical characteristics of the product are not affected.

The surface curing is rapid but it can take nearly a month for the product to get totally cured. Results obtained before total curing may vary considerably with temperatures and humidity conditions.

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.

## SAFETY PRECAUTIONS

### KEEP OUT OF THE REACH OF CHILDREN.

**Before using «MULCO PVC», consult the product material safety data sheet.**

Wear protective eye gear.

Do not wear contact lenses during application.

Do not manipulate contact lenses if silicone is still present in fingers, skin or nails.

The remaining silicone on hands may transfer onto the contact lenses and cause severe eye irritation.

**Disposal:** consult your municipality to dispose in conformity with regulations.