



TECHNICAL DATA

PRODUCT CODE

«ALL-PURPOSE LATEX ADHESIVE MULCO 78»

378 000

Technical data # 20060914

DESCRIPTION

Synthetic latex rubber based non-flammable and non-toxic vapor construction adhesive.

INTENDED USES

Especially formulated for construction bonding applications. Can be used indoors or outdoors to bond gypsum, rigid insulations, wood, ceramillite®, wall panels (some plastics, pre-finish, etc.), baseboards, cork, and acoustic tiles. «MULCO 78» can be used on gypsum walls, plywood, masonry or cures concrete or on plywood or cured concrete floors.

REMARK: → Not to be used on particleboards;
→ Does not withstand immersion (tanks).

ADVANTAGES

- | | | |
|-------------------------|---|-------------------|
| ⇒ Professional quality. | ⇒ Multipurpose product with a remarkable adhesion on numerous construction materials. | ⇒ Flexible. |
| ⇒ Ease of application. | ⇒ Ecological product, emits less than 25 g/L of organic volatile compounds. | ⇒ No toxic vapor. |
| ⇒ Non-flammable. | | ⇒ Weak odor. |

STORAGE AND APPLICATION TEMPERATURE

The «MULCO 78» contains water. It may freeze. Although it is stable at a limited number of freeze-thaw cycles, it is not recommended to let it freeze. Always store it in a dry place where temperature is between 15°C (60°F) and 30°C (86°F). Thus, the unopened containers could be preserved for 3 years.

If however it froze, warm it up to a temperature between 15°C (60°F) and 30°C (85°F) during 24 hours before use.

To allow the product to dry, the product, air and materials should be at a temperature between 15°C (60°F) and 30°C (85°F) during the product laying and the following days. The application of «MULCO 78» should not be done if a temperature below 15°C (60°F) is expected within 24 hours of the application.

SURFACE PREPARATION

The surface must be in a seemingly new, firm, linear, clean, porous and dry state. Wash off any filth, grease, oil salt or any contaminating product agent with an appropriate cleaner/degreaser. It must also be free of wax, silicone, asphalt or tar products coating, adhesive, etc.), and all loose or foreign material. The surface must not be crumbly, soft or fragile. It must also be free of any humidity or hydrostatic pressure.

PLYWOOD BOARDS: Floors must be firm and sound. They must be at least 19 mm (¾ in.) thick. Floors that have been doubled must be done so with 16 mm (5/8 in.) plywood nailed at every 10 cm X 10 cm (4 in. X 4 in.). Outdoor, only outdoor grade material must be use.

CONCRETE: Do not use on concrete less than 28 days old. The surface must present no trace of coating, paint or curing agent since it may hinder adhesion. The surface must be entirely free of efflorescence.

Verify the presence of humidity or hydrostatic pressure.

After cleaning, let the surface to dry at least 72 hours. Concrete temperature must be at least 5°C (40°F). Low temperature slow water migration and false results.

Fix with a duct tapes on 4 or 5 floors areas, a plastic sheet at least 60 cm (2 feet) x 60 cm (2 feet) to the floor. Plastic sheets must stay in place for at least 24 hours if the concrete temperature is above 20°C (70°F) or at least 3 days if the concrete temperature is between 5°C (40°F) and 20°C (70°F). If the slab temperature is lower than 5°C (40°F), the humidity test cannot give reliable results.

Verify the presence of humidity (concrete getting darker or presence of droplets).

If it exists (concrete getting darker or presence of droplets), «MULCO 78» should not be used on that floor, a false floor must be built including a vapor barrier.

Verify the presence of efflorescence salts.

If necessary, treat with a 5 to 10% muriatic (hydrochloric) acid solution or another specific acid solution.

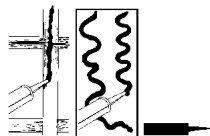
Let work for 20 minutes or according to product's instructions. Swill out several times and let dry out (at least 72 hours).

REQUIRED PRIMER

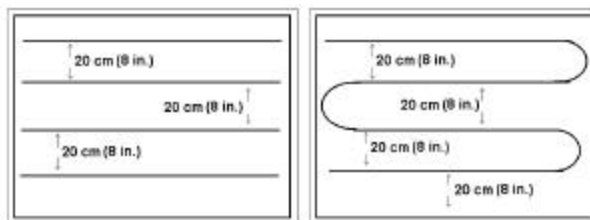
«MULCO 78» generally does not require priming on most bares building materials surfaces as: gypsum, plywood, concrete (28 days old), masonry, fiberglass and many common building materials.

APPLICATION

By bead:



Cut the nozzle of the cartridge at a 90° angle, at a dimension that extrudes beads of at least 7 mm (1/4 in.) in diameter.
 Pierce the aluminum membrane found inside the nozzle.
 Use a caulking gun and apply with a uniform pressure.
 Apply a bead on the perimeter and at every 20 cm (8 in.) covering entire surface following one of those sketches.



Take care to follow the product coverage. All beads of adhesive must be thick enough to be smoothed out when the material is in place.

Bathtub wall kit: Apply a bead on the perimeter and with a serpentine shape. **Take care to follow the product coverage. The walls must be free of paint.**

By trowel:

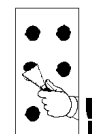


In general, the use of a 5 mm (3/16 in.) V notched trowel is sufficient for smooth materials.
 For very uneven surfaces, a trowel with larger notches may be required.
 In all cases, always use a trowel so that 80% of the back of the material is covered with adhesive once it is in place.
 Apply the adhesive on entire surface using a trowel to ensure a strong bond between the two surfaces.

Do not cover a larger area with adhesive than can be covered with material, for a skin will form.
 The adhesive must be smoothed out when the material is put in place.
 Be sure the adhesive is tacky upon putting the material in place.

By spot:

Apply spots of 3 cm (1 ¼ in.) in diameter by at least 6 mm (1/4 in.) thick and at every 30 cm (12 in.) by 30 cm (12 in.) on entire surface.
 All adhesive spots must be thick enough to be smoothed out once the material is in place.



Ceiling: Use the adhesive, following one of the methods mentioned earlier, with metal fasteners. If the adhesive applied by spots, spots must have at least 1 cm (1/2 in.) thick

In all cases:

The amount of adhesive applied must be sufficiently thick to be smoothed out when the material is put in place.
 The material must be put in place immediately and must not take longer than 15 minutes since the start of the application.
 If the material slides, use more adhesive or, put in place before 5 minutes, remove it, wait 3 to 4 minutes and replace it.
 Adhesion could be mediocre if the material is put in place once a skin has formed. Touch the adhesive to see if a skin has formed. If so, you have waited too long to apply the materials. Re-trowel the adhesive and apply a new coat, all the while working more quickly.
 Wait at least 24 hours before applying any force on the materials (traction, traffic, movement, etc.).

COVERAGE

Per 300 ml cartridge:	By bead:	7 linear metres (23 linear feet) of bead 8 mm (3/8 in.); 1.2 m ca. (13.1 sq. ft.).
	By spot (spots 6 mm thick):	3 sq. m (34 sq. ft.);
	By spot (ceiling spots 1 cm thick):	2 sq. m (20 sq. ft.).
Per litre:	Trowel (5 mm (3/16 in.) V notched):	1.6 sq. m (17 sq. ft.)
	By spot (spots 6 mm thick):	11 sq. m (114 sq. ft.);
	By spot (ceiling spots 1 cm thick):	6.3 sq. m (68 sq. ft.).

TECHNICAL GUIDE

GENERAL APPEARANCE:	Homogenous paste, free of lumps, easy to use.
COMPOSITION:	Synthetic latex rubber (binder), inert charge (pigments), water (volatile material), bactericide and other additives.
APPLICATION METHOD:	Caulking gun, putty knife, V notched trowel
APPLICATION SITE:	Indoors / outdoors
SURFACE DRYING TIME:	15 min.
FREEZE / THAW STABILITY:	5 cycles.
CLEANER (wet product):	Use water.
CLEANER (dry product):	Use a putty knife and mineral spirits or another effective solvent; take care not to affect the other surfaces with too strong a solvent.
CLEANER (skin contact):	Whenever possible, wash with water. If the product is dry, wash with mineral oil, then with soap and water and rinse.
FLAMMABILITY:	At application: non-flammable; Dry: combustible.
STANDARDS:	Associated with the standards CAN/CGSB 71-GP-24M, CAN/CGSB 71.25M and, CAN/CGSB 71.26M.
SERVICE TEMPERATURE:	Minimum: -30°C (-22°F); Maximum: 50°C (122°F).
VOC content:	1.8%
Regulatory VOC (less water and exempt solvent):	23.48 g/L

RESTRICTIONS**KEEP FROM FREEZING DURING THE APPLICATION AND DRYING TIME.**

Never apply at a temperature below 15°C (60°F) or if the temperature should drop below 15°C (60°F) during the days following the application.

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

On certain conditions, mechanic fasteners may be required.

Adhesion of materials subject to immersion cannot be guaranteed.

The initial drying time of «MULCO 78» is 24 hours; its full drying time can exceed 10 days.

Open and drying times have been obtained at 25°C (77°F), 50% relative humidity and with no air circulation. At higher temperatures or if there is air circulation, both times may be shorter. If the temperature is lower or the humidity is greater, both times will be longer.

Considering the variety of woods and finishes available for particle and chipboards, adhesion cannot be guaranteed. Mulco Inc. leaves the responsibility in the hands of the customer. The latter should conduct his/her own tests regularly to insure good adhesion with any selected panel.

The surfaces of both materials must be porous in order for the adhesive to dry. Do not use on painted, waxed or varnished surfaces without thoroughly sand the surface.

In general, «MULCO 88» must be used for metal adhesion, see its technical data sheet.

Do not use for adhesion of parquet flooring. Use «MULCO 76» or «MULCO 766» adhesive for pre-finished parquetry or «MULCO 28» adhesive for non-finished parquetry.

Do not use to bond cushion floors; use «MULCO 97» adhesive.

Adhesion of 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 78», consult the product material safety data sheet.

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