



# TECHNICAL DATA

PRODUCT CODE

## «TURF CARPET ADHESIVE MULCO #93»

393 000

Technical data # 20060914

### DESCRIPTION

«MULCO #93» is a waterproof adhesive formulated with synthetic rubber and flammable petroleum distillates.

### INTENDED USES

Outdoors uses to bond artificial turf carpet on concrete or exterior grade plywood.

**REMARKS:** → Does not withstand immersion (tanks);

→ Not to be used on insulating panels or plastic materials which can be affected by solvents.

### ADVANTAGES

⇒ Professional quality.

⇒ Withstands weather conditions and temperature

⇒ Remarkable adhesion.

⇒ Ease of application.

changes.

⇒ Excellent life expectancy.

### STORAGE AND APPLICATION TEMPERATURE

«MULCO #93» does not deteriorate below freezing point. Anyhow, since its viscosity increases when the temperature drops down, it is recommended to store it in a dry place of which the temperature is between 10°C (50°F) and 30°C (85°F) to make its use always possible. Thus, the unopened containers could be preserved for 2 years.

The product, air and materials should be at a temperature between 10°C (50°F) and 30°C (85°F) during the product laying and the following days.

### 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 other contaminating product agent with an appropriate cleaner/degreaser. It must also be free of old coating, paint, wax, silicone, asphalt or tar products (coating, adhesive, etc.), and all loose or foreign material or any material soluble in solvents. The surface must not be crumbly, soft or fragile. It must also be free of any humidity or hydrostatic pressure.

#### PLYWOOD AND PARTICLEBOARDS:

Floors must be firm and sound. They must be at least 19 mm (3/4 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.).

#### CONCRETE: Do not use on concrete less than 28 days old.

The surface must present no trace of curing agent since it may hinder adhesion.

The surface must be entirely free of efflorescence salts.

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 floor 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 tests 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 #93» 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.

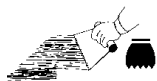
Swill out several times and let dry out (at least 72 hours).

### REQUIRED PRIMER

«MULCO #93» generally does not require priming on most bare building materials surfaces as: plywood, particleboards, chipboard, concrete (28 days old), fiberglass and many common building materials.

## APPLICATION

Choose a cool day or begin at the end of the day.



Spread the adhesive with a 5 mm (3/16 in.) V notched trowel. The use of a trowel with smaller notches will give uncertain results. Press turf carpet adhesive with a uniform pressure.

The amount of adhesive applied must be sufficiently thick to be smoothed out when the material is put in place. If it is not the case, use a trowel with larger notches. The turf carpet must be put in place immediately and must not take longer than 20 minutes since the start of the application.

Adhesion could be mediocre is 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 material. Re-trowel the adhesive and apply a new coat, all the while working more quickly.

Lift the carpet to verify adhesive transfer.

**Pass a 50 Kg (100 pounds) roller in both directions.**

If air bubbles are present, pierce the center of the bubble to let the solvent escape. Press the carpet firmly against the adhesive.

Wait at least 48 hours before applying force on the materials (traction, traffic, movement, etc.).

## COVERAGE PER LITRE

Approximately 1.8 sq. m (19 sq. ft.) (less on very rough surfaces).

## TECHNICAL GUIDE

<b>GENERAL APPEARANCE:</b>	Homogenous paste, free of lumps, easy to use.	
<b>COMPOSITION:</b>	Synthetic rubber and resins (binder), inert charge (pigments), solvents (volatile material), and other additives.	
<b>CLEANER</b> (wet product):	Use mineral spirit.	
<b>CLEANER</b> (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.	
<b>CLEANER</b> (skin contact):	Whenever possible, wash with mineral oil. If the product is dry, wash with mineral oil, then with soap and water and rinse.	
<b>FLAMMABILITY:</b>	At application: .....	very flammable;
	Dry: .....	combustible.
<b>SERVICE TEMPERATURE:</b>	Minimum: .....	-30°C (-22°F);
	Maximum: .....	50°C (122°F).

## RESTRICTIONS

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

Do not use on painted or varnished surface without thoroughly sand the surface.

Use only on exterior grade plywood, particleboards or bare concrete floors.

The surfaces of the floor must be porous in order for the adhesive to dry.

The drying time of «MULCO #93» depends on temperature, materials, relative humidity and ventilation. The initial drying time of «MULCO #93» is 24 hours; its full drying time can exceed 10 days at 25°C (77°F), 50% relative humidity and without air circulation. Higher temperatures or air circulation will short those times. At lower temperature, or high relative humidity, the drying time will be longer.

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 #93», consult the product material safety data sheet.**

Avoid using it in a place where the solvents evaporating from «MULCO #93» could affect food or any other product sensitive to odors or inside residences where sensitive people are present.

«MULCO #93» contains flammable solvents. Do not smoke when using the product. Work in good ventilation conditions. Suppress all flash sources, flames or intense heat at the working place and near it. Well ventilate to the outdoors. Do not recycle the air.

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