



## Innovative Equine Systems

Exceptional Equestrian Facility Products and Structures

### **PU88 Polyurethane Flooring Adhesive**

*Bonds Innovative Equine Systems' rubber flooring inside and out*

- Solvent free
- Withstands heavy duty wear
- Resistant to moisture and weather
- Highly economical in use
- Transportable up to -4°F

PU88 is a solvent free non-flammable, moisture and weather resistant 2-part polyurethane adhesive suitable for indoor and outdoor applications.

#### **APPLICATION FIELD**

PU88 is recommended for bonding Innovative Equine Systems' Evopave rubber interlocking pavers and Versatile tiles. It will also bond needle felt, carpets, concrete/glass/ceramic and quarry tiles, expanded polystyrene, chipboard, plywood, hardboard, fiber/cement sheet and metals.

#### **COMPOSITION**

A solvent free 2-component polyurethane adhesive with inorganic fillers.

#### **CHARACTERISTICS**

	<b>Part A</b>	<b>Part B</b>
Viscosity	Paste	Liquid
Color	Grey	Dark brown
Specific Gravity	3.75 lb./gal.	2.65 lb./gal.
Mixing ration	5 parts by wt.	1 part by wt.

Pot life at 68°F	± 30 minutes High temperatures accelerate, while low temperatures retard curing 50°F - ± 90 minutes 86°F - ± 15 minutes
Consumption	1/8 x 3/32 trowel serration at ± 1.25 lb./sq yard on smooth cement/concrete
Coverage	14 oz. – 2.5 lb./sq. yard depending on condition of sub-floor material. (Examples: on smooth cement sub-floor, use ± 1.25 lb./sq yard. On fine compacted smooth asphalt, use ± 2.25 lb./sq. yard.
Waiting time	Usable immediately after curing
Resistance	Normal flooring traffic after ± 8 hours
Resistance to chemicals	After 7 days
Storage time	12 months when stored in a cool, dry place

## PREPARATION OF SUB FLOORS

The sub-floor must be dry, level, smooth, structurally sound and free from grease, dirt, dust, paint, wax, etc. Old adhesives must be removed whenever possible. Bitumen based adhesives and sealers must be removed.

Dry, dusty or porous sub-floors must be treated with a suitable primer or sealer. Allow primer to dry thoroughly before applying PU88 adhesive.

## APPLICATION

Part A and Part B materials are supplied in separate containers. The mixing ratio is already established (resin to hardener = 5:1).

Pour Part B into the container holding Part A gradually. At the same time, mix the resin and hardener using a hand drill with propeller attachment for a minimum of 2 minutes until an even grey color has been obtained.

Pot life is 30-45 minutes in the bucket at 68°F. At this temperature, the setting time is ± 5-8 hours, after which time the adhesive is resistant to mechanical strain. The final chemical setting and optimum bond strength is achieved after 7 days. Pot and setting times vary depending on temperature and relative humidity. Heat shortens them while cold prolongs them. Do not store adhesive in direct sunlight.

Do not use at temperatures below 50°F or humidity over 90%. Apply the adhesive to the sub-floor with a notched trowel. Use a B1, B2 or C1 serration application trowel.

Do not scrape out the adhesives from the containers. The adhesive in this part may not be totally mixed and may not cure.

PU88 adhesive is not a high grab adhesive, and it is recommended that weights be placed on Innovative Equine Systems' rubber flooring products until the initial set of the adhesive has taken place. It is recommended that the bonded rubber flooring is shielded from direct sunlight during the initial setting time.

## **IMPORTANT INFORMATION**

### *Health and Safety*

PU88 adhesive contains diphenyl methan 4, diisocyanate. Ensure adequate ventilation and fresh air during and immediately after use. Do not breathe fumes. Avoid skin contact. It is advisable to wear gloves and a face guard while handling the adhesive. PU88 can only be mechanically removed when fully cured. If not fully cured, Xylene may be used, although its success is dependent on how cured the PU88 is.

### *Direction of Use*

The mixing quantities are set a 5:1. It is vital to observe this mixing ratio of resin and hardener.

Stir the hardener in the resin thoroughly until a uniform grey color is obtained. For best results, use an electric drill with suitable mixing paddle. Minimum mixing time is 2+ minutes. Pour the adhesive out of the bucket but do not scrape out remnants. Use the adhesive immediately. Curing time is dependent on atmospheric conditions and temperature. Curing will be considerably retarded at temperatures below 50°F.

Bulk product in the bucket will cure faster than film spread on the floor, due to chemically induced heat build-up during the curing process. This temperature increase is negated once spread on the floor. Higher temperatures will generally increase curing speed and reduce open time. Innovative Equine Systems recommends that trials are conducted to ascertain actual curing times before proceeding with the actual flooring installation.

### **Do not use PU88 at temperatures below 50°F.**

The above data, particularly the recommendations for applications and use of this product is based on our knowledge and experience. Due to varying conditions during applications that are beyond our control, we strongly recommend carrying out sufficient tests in order to ensure that PU88 is suitable for the intended flooring installation. Except for willful act, any liability based on such recommendations or any oral advice is hereby expressly excluded.