

# GARD-DECK® 800 R (PUMMA)



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## PRODUCT DESCRIPTION

Gard-Deck® 800 R (PUMMA) is a two component flexible methyl methacrylate modified polyurethane used in the application of the Gard-Deck® Pedestrian and Vehicular deck coating systems.

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## PRODUCT USE

Gard-Deck® 800 R (PUMMA) is a cold applied traffic bearing deck coating membrane, and is the primary component in the Gard-Deck® vehicular and pedestrian traffic deck coating systems. It is used as the initial base coat and wearing coats and can be reinforced with Gard-Deck® Fleece or unreinforced. .

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## PACKAGING

Gard-Deck® 800 R (PUMMA) comes in the following packaging:

10 kg / container	10 kg equals 2.64 US gallons
25 kg / container	25 kg equals 6.60 US gallons
180 kg / drum	180 kg equals 47.55 US gallons

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## COLOR

Gard-Deck® 800 R (PUMMA) is clear and translucent without adding pigments  
Gard-Deck® hardener: White powder

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## COVERAGE RATES

Mixing Ratio: 1 Part 800 R : ½ part Pet Filler per Volume

Coverage rates shall vary depending of the product system chosen. See installation manuals for Gard-Deck® Vehicular systems and Gard-Deck® Pedestrian systems.

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## STORAGE

Product shelf life is 6 months from date of manufacturer. Do not store in direct sunlight. Do not store in temperatures above 77°F (25° C) nor below 32° f (0° C). Store indoors in unopened containers in a well ventilated, cool, dry area and always away from heat, open fire, or points of ignition source.

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The information, data and suggestions contained herein are believed to be reliable, based upon our knowledge and experience. For the most up to date information, please visit [www.hydro-gard.com](http://www.hydro-gard.com). HYDRO-GARD accepts no responsibility for the results obtained through application of this product. HYDRO-GARD reserves the right to update information without notice.

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## HANDLING

Keep away from open flames, or sources of ignition. Do not smoke around product. Once mixed with hardener, vapors may exist and can be explosive when mixed in the ambient air. Avoid direct contact with the skin, eyes, and breathing fumes. Always wear personal protective equipment such as: eye protection, gloves and respiratory equipment.

## MIXING & INSTALLATION

When batch mixing, thoroughly mix the entire container of **Gard-Deck® 800 R (PUMMA)** resin for 2-3 minutes prior to pouring the mixed resin into a additional container. Add hardener only to mixed resin that can be applied within the specified pot life. Add the pre-measured hardener to the resin component and mix in for approximately 2 minutes using a slow-speed mechanical agitator or mixing stick, then apply to the prepared substrate . For temperatures below 50° F (10° C) hardener will take longer to dissolve and may need additional mixing time. The amount of hardener needed is based on the weight of the resin used , and varies with the ambient temperature as shown in the chart on this data sheet.

**Gard Deck 800 R (PUMMA)** is typically used in conjunction with fillers and aggregate and requires the addition of the HP Hardener to start the hardening process. The amount of hardener must be adjusted to the respective surface temperature (see table). At temperatures below 40° F, **HP COLD TEMPERATURE ACCELERATOR** must be used in addition to the amount of hardener used at the 40° F or 30 °F level.

**Gard Deck 800 R (PUMMA) Resin**  
**Mixable Ratios, Pot Life, and Hardening/Temperature**

Temp. (°F) of Resin Air & Floor Surface	Hardener by Volume (oz.) Per Gallon of 9800 Resin	Pot Life (min.)	Hardening Time (min.)
+ 30 °F	10 vol. Oz.	Approx. 25	Approx. 75
+ 40 °F	9-10 vol oz.	Approx. 25	Approx. 70
+ 50 °F	8-9 vol oz.	Approx. 25	Approx. 65
+ 60 °F	6-7 vol oz.	Approx. 20	Approx. 60
+ 70 °F	5-6 vol oz.	Approx. 20	Approx. 50
+ 80 °F - 90 °F	5* vol oz.	Approx. 15	Approx. 45

\*Do not use less than 5 oz. **Gard Deck 800 R (PUMMA)** Hardener by volume  
Consult with **HYDRO-GARD** Technical Service if performing mix ratio by weight instead of by volume.

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**HP COLD TEMPERATURE ACCELERATOR:** At Temperatures below 40 °F, HP Cold Temperature Accelerator must be used in addition to the amount of hardener uses at the 40 °F or 30 °F Level. As a rule of thumb, add about ½ oz by volume per gallon of resin @ 39 °F to 32 °F, up to 2.0 oz by volume per gallon @ -20 °F, Increasing the quantity gradually in a consistent linear progression as the temperature decreases. **VERY IMPORTANT: HP COLD TEMPERATURE ACCELERATOR** must be added to the resin and thoroughly blended BEFORE adding the HP Hardener, or hazardous decomposition may occur (i.e., violent foaming). **HP COLD TEMPERATURE ACCELERATOR** will cause yellowing, it is advised to use pigmented Resin versus clear to reduce the appearance of yellowing, darker colors will be less affected than lighter colors.

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## PHYSICAL PROPERTIES RESIN

Percent Reactive	100%, zero VOC
Working life, 50-70°F	15-25 minutes, varies
Cure Time	55-75 minutes
Viscosity, cps	600-800 cps
Weight per Gal	8.4 lbs
Tensile Strength	250 psi
Elongation @ Break	300 %

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## WORKING TIMES (at 65° F (20° C))

- Pot Life: approx. 10 to 15 minutes
- Rainproof: approx. 30 to 45 minutes
- Resin coat: approx. 45 to 60 minutes
- Fully Cured: approx. 3 to 6 hours

Note: The above approx times vary depending on substrate and ambient conditions. Actual set (cure) times should be established in the actual field conditions. The information noted on this data sheet should be used as a guide and do not reflect field conditions which may vary.

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## INSTALLATION GUIDELINES

### APPLICATION MEMBRANES (NOTE: APPLIES TO FLOORING APPLICATIONS)

The fresh slurry coat or joint filler must be applied over substrate primed with **Gard Deck 800 R (PUMMA)**. Formulas 9800/1, 9800/2, and 9800/4 are applied with a gauge rake or notched trowel/squeegee. When using formula 9800/1, apply in two layers, the first “neat” and the second layer broadcast to excess with a wearing course of 20 mesh silica or colored quartz aggregate. Formula 9800/2 may be installed in a single layer and must be broadcast to excess with a wearing course of 20 mesh silica or colored quartz aggregate. Formula 9800/4 is applied in two layers, with polyester fleece reinforcement imbedded into the first layer. Aggregate broadcast rates will vary from 0.25-1.25 lbs/sf depending on type and size of aggregate, mix design, and thickness of slurry. It is recommended to broadcast 20 mesh aggregate or larger. Do not use broadcast aggregate smaller than 20 mesh or the risk of random cure problems increases. Aggregate may be natural or colored quartz, sand, aluminum oxide, emery, etc. **Gard Deck 800 R (PUMMA)** must be top coated or sealed with **HP 9528**.

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## AVAILABILITY

**Gard Deck 800 R (PUMMA)** is available throughout the United States, Canada, Mexico and a number of other countries. Contact the representative in your area.

## STORAGE

Store in a cool and dry place, below 80° F, out of direct sunlight. Do not store near open flame or food. Shelf life is 6 months in the original un-opened containers. After extended storage: Additives and fillers can separate with storage, materials should be inspected for any visible signs of settlement, polymerization, or paraffin coagulation (clumps, strands). Thoroughly mix pails or drums (use a drum mixer, do not rely on rolling drum on floor) pour into new containers to inspect resin before use.

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