

Specification Sheet

Premium Two-Part Epoxy

GENERAL PURPOSE DOT NON-CORROSIVE ADHESIVE

Premium Two-Part Epoxy is a DOT non-corrosive epoxy system that has been specifically formulated to address environmental, workplace safety, and shipping concerns. The epoxy is a two-component, 100% solids, BGE and VOC-free, epoxy resin system specifically formulated to bond a variety of materials. The paste-like consistency allows for easy application, including vertical surfaces.

Premium Two-Part Epoxy is packaged in two pre-measured kits of resin and hardener. To use, simply mix the resin and hardener in a 1:1 ratio by volume into an empty paint can or bucket. The epoxy is color coded for mixing convenience and control.

****It is recommended that you use a paint mixer drill attachment to blend the two parts of epoxy together to achieve the best results. Blend for 3 minutes to ensure both parts are combined. If a drill attachment is unavailable, mix vigorously by hand for at least 5 minutes.***

WORKING TIME

The working time (the time you have before the mixed epoxy sets) of the Premium Two-Part Epoxy will vary according to the air temperature. The average working time at 70° F (21°C) is 45 minutes for approximately 1 pint (0.5 qt.) of mixed material. In cooler weather, you will have more time to work with the material, and in hotter weather you will have less time. *It is recommended that the epoxy not be used and installed when temperatures fall below 45° F. This cold of temperature may affect the effectiveness of the epoxy while being installed.*

CURE TIME

The cure time (the time before the parts can be used) will also depend on the air temperature and the temperature of the parts themselves. The average cure time from the last application to start-up at 70° F (21° C) will be 4 to 5 hours. Preheating the parts will accelerate the cure time. Do not heat parts hotter than 100° F (38° C). *It is recommended that the epoxy not be used and installed when temperatures fall below 45° F. This cold of temperature may affect the effectiveness of the epoxy while being installed.*

Shelf Life

Premium Two-Part Epoxy has a shelf life of 2 years from the manufacture date, and should be stored in a cool, dry place. Unmixed material remaining in the cans may be resealed for future use.

Shipping

Premium Two-Part Epoxy is non-corrosive. Therefore, it is not DOT restricted and may be shipped via UPS.

Epoxy Coverage Chart *(Based on optimal conditions, please use only as a reference)*

Glue Down Speed Bump Length (ft.)	Glue Down Wheel Stop QTY	Glue Down Delineator QTY	Glue Down Rumble Strip Length (ft.)	Qty Epoxy Needed
0' – 14'	0 – 9	0-7	0' – 48'	1 (2-part quart system)
12' – 27'	10 – 18	8-14	48' – 96'	2 (2-part quart system)
25' – 40'	19 – 27	15-21	96' -144'	3 (2-part quart system)
38' – 53'	28 – 36	22-28	144'-192'	4 (2-part quart system)

HANDLING PROPERTIES (1 pound or 454 g @ 72° F or 22° C)

COLOR - Light Gray

CONSISTENCY - Non-Sag Paste

SPECIFIC GRAVITY, g/cm³ - 1.38

WORKING TIME, min - 45

GEL TIME, min – 60

CURE TIME, h – 4

PHYSICAL PROPERTIES

COMPRESSIVE STRENGTH, Psi (MPa) – 12,900 (89)

TENSILE STRENGTH, Psi (MPa) – 4,200 (29)

ELONGATION @ BREAK, % - 2.5

TENSILE SHEAR STRENGTH, Psi (MPa) – 2,500 (17)

MAXIMUM CONTINUOUS SERVICE TEMPERATURE, °F (°C) – 150 (66)

HARDNESS @72°F (22°C), Shore D - 82

WATER RESISTANCE, % - 0.5

Application Instructions

CONCRETE PREPARATIONS

Remove all oil, grease, or contaminated concrete. Chip the surface down to sound aggregate. If chipping, grinding or sanding needs to be done, ensure all dust and residue is cleared before applying epoxy. Failure to do so will create a weak bond and the adhesion may fail. The concrete must be dry and have no standing water. Acid etching surface preparation procedures may result in poor bond and should be avoided. Do not prime or seal concrete surfaces.

CLEAN-UP

Uncured Premium Two-Part Epoxy can be removed from tools and equipment with non-flammable isopropyl alcohol, xylol or ketones.

SAFETY PRECAUTIONS

Avoid breathing of vapors. Forced local exhaust is recommended to effectively minimize exposure. NIOSH approved, organic vapor respirators and forced exhaust are recommended in confined areas, or when conditions (such as heated polymers, sanding) may cause high vapor concentrations. **DO NOT WELD, BURN OR TORCH NEAR, OR ON, ANY EPOXY MATERIAL. HAZARDOUS VAPOR IS RELEASED WHEN AN EPOXY IS BURNED.** Avoid skin or eye contact. Wash skin with soap and water if contact occurs. If eye contact occurs flush with water for 15 minutes and obtain medical attention. Read and understand all cautions on can labels and safety data sheets before using this material.