

ISO 9001:2008

TECHNICAL INFORMATION

HARDMAN® Fast-Setting Non–Sag Epoxy 2 DOUBLE/BUBBLE® Red Package #04008

PRODUCT DESCRIPTION

HARDMAN Non-Sag Epoxy is a thixotropic, extra fast setting, two-component epoxy adhesive. It has a convenient mix ratio, excellent sag resistance when applied to vertical surfaces, and a smooth paste consistency. It is recommended for rapid repairs and electrical and industrial staking.

HARDMAN Non-Sag Epoxy is recommended for the following substrates:

Metal	Plastic	Other
Carbon Steel	Epoxy	Stone
Stainless Steel		Wood
Aluminum		Glass
		China
		Leather

TYPICAL USES

HARDMAN Non-Sag Epoxy is ideal for quick, permanent, vertical and overhead repairs. It can be used for fixturing, tacking, sealing, gap filling and staking in electrical and industrial applications.

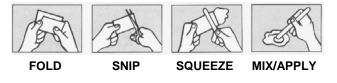
PACKAGING

The DOUBLE/BUBBLE package is a handy, dual-pouch, one-shot, job-size packaging concept. It reduces the waste typically associated with the use of larger quantities of two-component adhesives. This unique packaging ensures that DOUBLE/BUBBLE adhesives are always factory fresh and accurately portioned for optimum adhesive performance.

HARDMAN Non-Sag Epoxy is also available in poly bottles, 1-gallon cans, 5-gallon pails and 55- gallon drums.

HOW TO USE

Surface must be clean and dry before application. Remove all chemicals, dirt, wax and oil.



Fold the DOUBLE/BUBBLE package along the center seal, snip the end, squeeze out the contents, mix thoroughly and apply.

TYPICAL UNCURED PROPERTIES

	Part A	Part B	Mixed
Color	Opaque	Opaque	Opaque
	Pink	White	White
Viscosity @ 25 °C, cps	465,000	400,000	Thixotropic
			Paste
Index @ 25 °C	3	2.6	
Weight per Gallon, lbs.	9.9	9.61	9.75
Specific Gravity @ 25 °C	1.19	1.15	1.17
Work time, minutes			3
Handling Strength, minutes			15 - 30
Shelf Life, months	24	24	

TYPICAL CURED PROPERTIES

(Tested at 25 °C unless otherwise indicated)

Test	<u>Result</u>
Hardness, Shore D	83
Maximum Service Temp.	82 °C (180
	°F)

Lap Shear Strength (acid-etched aluminum to

15	30	60
min.	min.	min.
346	717	1,700
	min.	min. min.

Lap Shear Strength (acid-etched aluminum to

<u>T-Peel Strength</u> (acid-etched aluminum to aluminum)

rest remperature	-40°C	25 0	62 U	
Peel Strength, pli	1	2.7	2.0	



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STORAGE AND HANDLING

Store DOUBLE/BUBBLE adhesives at room temperature in a dry environment. Extreme low temperatures may cause crystallization. Extreme high temperatures may degrade the properties.

A wide variety of cleaning solutions are available for cured and uncured epoxies and polyurethanes

SAFETY

These materials are intended for commercial and industrial use only, and the practices of good housekeeping, safety and cleanliness should be followed before, during and after use.

Although the system contains low volatility materials, care should be taken in handling. Use adequate ventilation in the work area.

These materials may cause dermatitis in susceptible individuals. Keep off skin and out of eyes. In case of accidental skin contact, wash thoroughly with soap and water. In case of eye contact, flush eyes thoroughly with water and consult a physician immediately.

Refer to Material Safety Data Sheet for additional information.

ADDITIONAL INFORMATION

Visit our web site at: www.royaladhesives.com

Contact us at:

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NOTE

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