



TECHNICAL INFORMATION

HARDMAN® TUFF STUFF™ Urethane A-85 DOUBLE/BUBBLE® Purple-Beige Package #04024

PRODUCT DESCRIPTION

TUFF STUFF Urethane A-85 is a fast setting, flexible, elastomeric, two-component polyurethane adhesive. It exhibits excellent peel strength and low temperature flexibility.

Urethane A-85 is recommended for the following substrates:

<u>Metal</u>	<u>Plastic</u>	<u>Other</u>
Carbon Steel	Epoxy	Rubber
Aluminum	Phenolic	Stone
Copper/Brass	Polyester	Glass
Tin	Urethane	China
Zinc	Fiberglass	Leather

TYPICAL USES

Urethane A-85 is ideal for repairing construction and off-road tires, flexible conveyor belts, printing press rollers, rubberized fabrics, shoes, ski boots and other sports equipment. It is also excellent for bonding refrigeration and AC equipment.

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.

Urethane A-85 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 SNIP SQUEEZE MIX/APPLY

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	Amber	Black	Black
Viscosity @ 25 °C, cps.	45,000	35,000	40,000
Weight per Gallon, lbs.	8.46	14.52	10.16
Specific Gravity @ 25 °C	1.01	1.74	1.22
Work time, minutes	---	---	5-8
Handling strength, minutes	---	---	45
Shelf Life, months	18	18	---

TYPICAL CURED PHYSICAL PROPERTIES (Tested at 25 °C unless otherwise indicated)

Test	Result
Hardness, Shore D	40
Tensile Strength, psi	>2,900
Elongation, %	>450
Tear Strength, pli	475
Abrasion Resistance	64
Maximum Service Temp.	66 °C (150 °F)

Lap Shear Strength (acid-etched aluminum to aluminum)

Test Temperature	-40 °C	25 °C	82 °C	149 °C
Shear Strength, psi	4,310	950	390	175

T-Peel Strength (acid-etched aluminum to aluminum)

Test Temperature	-40 °C	25 °C	82 °C
Peel Strength, pli	83	24	15

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:

Royal Adhesives and Sealants, LLC
600 Cortlandt Street
Belleville, NJ 07109-3384
(888) 442-7362 Toll-free
(973) 751-3000 Phone
(973) 751-8407 Fax

NOTE

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