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TECHNICAL DATA SHEET  
TDS #: MP56805  
URETHANE ADHESIVE

## MAXIMUM PERFORMANCE SERIES MP56805 URETHANE ADHESIVE

### DESCRIPTION:

MP56805 is a high performance, two part urethane adhesive engineered to bond a wide range of plastics, metals, and composite assemblies. It offers outstanding bond strength, is extremely durable, with excellent impact and weathering properties. It's high viscosity allows for maximum gap filling capability and flow control on vertical surfaces. MP56805 greatly increases the reliability of finished assemblies with exceptional flexibility, the ability to withstand extreme temperature fluctuation, thermal cycling capability, and resistance to a wide range of chemicals and environmental conditions. This two part, urethane system is designed for high performance bonding, potting, and encapsulating applications. It is conveniently packaged in 50 mil, 400 mil, and 15 gallon kits.

### PHYSICAL PROPERTIES (UNCURED):

VISCOSITY @ 25°C (cps):	PART A: 50,000 PART B: 30,000
COLOR:	CLEAR, BLACK, WHITE
SOLIDS CONTENT:	100%
SPECIFIC GRAVITY:	PART A: 1.25 PART B: 0.99
MIXED RATIO (VOLUME):	1 TO 2 (PART A TO PART B)
WORK LIFE (20 grams @ 25°C):	15 MINUTES
FIXTURE TIME (20 grams @ 25°C):	60 MINUTES

### PHYSICAL PROPERTIES (CURED):

STRENGTH:	>2,000 PSI
HARDNESS:	SHORE A, 75
OPERATING TEMPERATURE (°C)	-60 TO 120
T PEEL (pli):	85
ELONGATION (@ 25°C):	200%
MOISTURE RESISTANCE:	EXCELLENT
DIELECTRIC CONSTANT(1Mhz):	3.40
DIELECTRIC STRENGTH (V/MIL):	400

### WHAT MP56805 BONDS:

#### METALS

- \*ALUMINUM
- \*STEEL
- \*STAINLESS
- \*COATED METALS

#### THERMOSETS

- \*FIBERGLASS
- \*PHENOLICS
- \*GEL COATS
- \*EPOXY
- \*RIM URETHANES
- \*POLYURETHANES
- \*LIQUID MOLDING RESINS

#### THERMOPLASTICS

- \*ACRYLICS
- \*ABS
- \*POLYCARBONATES
- \*NYLONS
- \*PPO'S
- \*VINYL'S
- \*PVC'S
- \*STYRENE'S
- \*PEEK'S
- \*PBT BLENDS
- \*PET BLENDS

***DIRECTIONS FOR USE:***

For the best results make sure parts are free of any type of contamination on the bonding surfaces. Begin by placing the cartridge in the gun. Remove the tip cap on the cartridge. Attach the static mixing nozzle on to the cartridge. Prior to applying adhesive on the part dispense a small amount of adhesive to equalize piston displacement. Then begin applying the adhesive to the part and follow your normal assembly procedures. Make sure the bond joint has uniform coverage and that a sufficient amount of adhesive is in the bond area. It is important to have the adhesive applied, parts aligned, and positioned, within the established work times for the product. To ensure the maximum performance of the finished assembly, parts should remain undisturbed until fixture time is reached. To store after use leave the mixing nozzle on the cartridge and replace when ready to use again. These products are sensitive to moisture. For best results use the entire cartridge within several weeks after removing from the sealed plastic bag.

***STORAGE:***

These products should be stored at 60°-80°F for maximum shelf life. Keep products in their original sealed plastic bags. Store in a cool, dark location. Always rotate stock to maintain shelf life properties.

***PRECAUTIONARY INFORMATION:***

**THIS PRODUCT IS FOR INDUSTRIAL USE ONLY!**

**KEEP AWAY FROM CHILDREN!**

**AVOID CONTACT WITH SKIN AND EYES!**

Consult MSDS for Safety Information.

***Engineering Excellence***

For technical information

and support call **1-800-552-0299** or visit our website at

***www.instantea.com***

**IMPORTANT NOTICE**

**NON-WARRANTY:**

Information contained herein is based on tests we believe to be reliable and accurate. It is offered in good faith for the benefit of the consumer. The Company shall not be liable for any injury, loss, or damage in the use of its chemical products since the conditions of use are beyond our control. In every case we urge and recommend the user conduct tests to determine to their own satisfaction that the product is of acceptable quality and is suitable for their particular purpose under their own operating conditions. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. These products are for industrial use only.