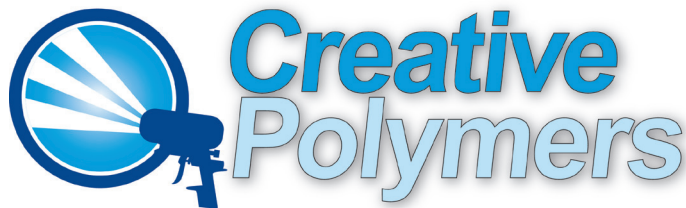


# PLASTI-THANE 3960

HIGH IMPACT POLYUREA SYSTEM



## DESCRIPTION

PLASTI-THANE 3960 is a two component, fast set, solventless, structural pure polyurea spray system. The system is designed to have high impact resistance with a balance of structural properties. This product must be applied using a heated plural component airless equipment. Single or multiple pass applications produce films from 50 to 100 mils without appreciable sag or runs.

## TYPICAL USES & APPLICATIONS

The system can be sprayed over EPS & PU foams to provide a high impact protective shell. The system can also be sprayed into molds to produce structural parts that can be de-molded 2-5 minutes.

## ADVANTAGES

- 100% Solids,, Meets VOC Regulations
- High Impact Resistance
- Rapid Demold Cycles/Cure Time
- Outstanding waterproofing properties
- Thermal shock resistant for freeze/thaw cycles
- Odorless, No Toxic Vapors
- Cures at lower temperatures
- Structural Toughness for Molding Applications
- Obtains great detail for replication applications

## PACKAGING

Container Sizes	10 & 100 Gallon Kits
Shipping Weights	11 lb/gal (5 kg/gal)

## PRIMERS & TOP COATS

This product may use primers or be top-coated. Please consult us for details.

## POT LIFE

Less than 30 seconds at 75° F.

## PHYSICAL DATA

Properties	Specifications
Solids By Volume	100%
Theoretical Coverage	1604 mil ft <sup>2</sup> /gal
Volatile Organic Compounds	0 lbs / gal (0 gm/L)
Recommended DFT	50-150 mils
Number of Coats	Multiple Passes
Mix Ratio [A:B]	1 to 1
Shelf Life	12 months
Color	Neutral
Flash Point - PMCC	> 300° F (149° C)
Viscosity- RV4/10 RPM	850
Component A of 3860	950 cps
Component B of 3860	900 cps

## PHYSICAL TESTING

Tensile Strength (ASTM D 412)	2,900 psi
Elongation (ASTM D 412)	340 %
Hardness (ASTM D 2240)	60 Shore D
Density	63-68 pcf

**SURFACE PREPARATION**

Surface must be clean of all oil grease and other contaminants

**MIXING**

The component “A” does not require any mixing. The component “B” requires mixing daily.

**CURE TIMES**

	50-69° F	70-89° F	90-100° F
Surface Dry	5 minutes	2 minutes	1 minute
Tack Free	20 minutes	10 minutes	6 minutes
Recoat (Min)	8 minutes	4 minutes	2 minutes
Recoat (Max)	3 days	2 days	30 hours

**APPLICATION INFORMATION**

	Material	Surface	Ambient
Minimum	135 ° F	40 ° F	40 ° F
Maximum	170 ° F	120 ° F	120 ° F

**APPLICATION PARAMETERS**

PLASTI-THANE 3960 must be sprayed using 1:1 volume, heated, high pressure, plural component air-less equipment only. Material should be maintained at 75- 85° F prior to application. When ready to spray this material, the proportioning unit must be capable of supplying the correct pressure and heat which is mandatory in order to apply the product in a consistent efficient manner. Pressure of 2,500-3000 psi with heated hose that can maintain material temperature of 135 - 150 ° F at the gun tip. Proportioner heaters and drum heaters are required that can assist in maintaining the temperatures. Use 2:1 transfer pumps or greater for material supply to the equipment.

**CLEAN UP/DISPOSAL**

Each day the drums of material should be resealed with a blanket of inert gas and all gun parts and equipment properly cleaned and lubricated. The un-cured isocyanate and resin portions should be disposed of according to local, state, and federal laws.

**STORAGE**

Materials should be stored in a dry, enclosed environment. Urethane coatings must be protected from moisture contamination. Store containers in a dry location at 60-90 F. Unused material must be kept sealed with a positive feed of dry air, nitrogen blanket or desiccant cartridge.

**SAFETY & HANDLING**

MSDS will be mailed with order. All personnel should read and understand the safety recommendations. All application personnel must use fresh air respirators or fresh air hoods. Protective clothing is recommended including gloves and eye protection. Make sure that adequate air exchange and ventilation is available in enclosed areas. Fumes or skin contact may cause severe allergic reaction. This product is for industrial use by trained professional applicators and should be kept away from children at all times.

**DISCLAIMER**

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets before applying material. Published technical data and instructions are subject to change without notice. Contact a Creative Polymers representative or visit our website for current technical data and instructions.

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