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Ref No: Z8200ABDSV1  
Page 1 of 2

# Data Sheet Z-8200 Polyurethane Compound

Product Name: Z-8200

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### Description

Z-8200 is a clear polyurethane compound for use on decals, labels, emblems and other decorated substrates. Z-8200 is a low viscosity material with excellent flow.

### Hazards

Part A is manufactured for commercial use only. (See MSDS). Part B contains aliphatic diisocyanate and polymeric isocyanates. See MSDS for safe handling instructions.

### Storage

Both Part A and Part B are sensitive to moisture and containers must be kept closed during storage. Storage temperature can be ambient, however the material should be warmed to 90 - 110°F before using.

### Component Z-8200A Part A

#### Typical Liquid Properties

Appearance	Clear liquid with a slight yellow tint
Specific Gravity	1.025 @ 25°C
Weight per Gallon	8.53
Brookfield Viscosity	150 +/- 50 Cps. @ 38°C #2 Spindle RVT @ 20 rpm
Hydroxyl Value	260-280
Acid Value	less than 0.15
Water Content	less than 0.07%

### Component Z-8200 Part B

#### Typical Liquid Properties

Appearance	Clear liquid
Specific Gravity	1.10 @ 38°C
Weight per Gallon	9.13 @ 38°C
Brookfield Viscosity	400 +/- 75 Cps RVT #2 Spindle @ 50 rpm @ 38°C
NCO Value	19.5+/-0.05

### Mixing Information

Ratio by Weight	Part A	48.25
	Part B	51.75
Ratio by Volume	Part A	50
	Part B	50

*All information, recommendations and suggestions contained herein are to the best of our knowledge true and accurate, but are made without guarantee. No warranty of fitness for a particular purpose is made. Nothing herein shall be construed to allow infringement of any patent.*

## **Curing**

**Gel Time:** The gelltime of Z-8200 is adjustable from 2 to 20 minutes.  
Standard products: Z-8200 A is 3 minutes +/- 30 seconds.

**Cure Time:** 100-200°F (38-93.3°C) - 4-16 hours  
70°F 24-48 hour cure  
120°F 12 hour cure  
175°F 4 hour cure

## **Typical Physical Properties**

**Hardness** 80-90 Shore A 40-50 Shore D

**Heat Aging** 7 days @ 85°C, no change

**Weathering** REAL TIME: 2 year South Florida showed no appreciable discoloration and slight loss of gloss.  
ACCELERATED OUTDOOR WEATHERING: Samples show no appreciable discoloration and slight to moderate loss of gloss after 5 years equivalent exposure in an Atlas EMMAQUA accelerated weather testing apparatus with water spray.

**Humidity Resistance** 7 days 100%RH @ 38°C, no change