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# Data Sheet Z-4551 INSTANT SET ELASTOMER

Product Name: Z-4551 Instant Set Elastomer

Date: 6/14/03  
Supersedes: None

### Description

Z-4551 is a polyurethane elastomer which is supplied as two medium viscosity liquids. Immediately after mixing there is a rapid viscosity rise and gel. The product is tack free in 2-5 minutes and cures to a tough elastomer in a few hours at room temperature. The mixing ratio is 1:1 by volume for easy use in two component spray equipment. Z-4551 can be used as a protective coating for fiberglass reinforced plastics, metal, foam product and a variety of other substrates. Primers such as Z-4667 and I-1022 are available to improve adhesion to substrates. Z-4551 is supplied in its natural tan color, color concentrates are available to tint it a desired color. Diaflex top coats are available to provide a light stable color.

### Hazards:

Z-4551 Part A is non-hazardous and for industrial use only. Z-455 Part B contains an aromatic isocyanate and must be handled with care. Z-455 Part B DOES NOT contain TDI. Caution and adequate ventilation must be used, personal breathing protection should be used when this product is sprayed

### Storage:

Store in sealed containers in a dry place @ 15-40°C. Shelf life in unopened cans is six months.

### Component Z-4551 Part A

#### Typical Liquid Properties:

<b>Appearance:</b>	A natural colored liquid which should be stirred well before using.
<b>Specific Gravity:</b>	1.23 @ 25°C.
<b>Weight per gallon:</b>	10.25 lbs.
<b>Brookfield Viscosity:</b>	2000-3000 cps. RVT #2 spindle, 10 rpm @ 25°C.

### Component Z-455 Part B

#### Typical Liquid Properties:

<b>Appearance:</b>	A light yellow liquid.
<b>Specific Gravity:</b>	1.16 @ 25°C.
<b>Weight per gallon:</b>	9.65 lbs.
<b>Brookfield Viscosity:</b>	1000-3000 cps. RTV #2 spindle, 10 rpm, @ 25°C.

*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.*

**Mixing Information:**

**Ratio by Weight:** Part A 51  
Part B 49

**Ratio by Volume:** Part A 50  
Part B 50

**Curing:**

**Conditions:** Use a dry environment with an ambient temperature above 50°F.

**Cure Time:** Tack free in two to ten minutes, full properties are achieved in two to seven days.

**Top Coating:**

Z-4551 can be coated with Diaflex aliphatic coatings 30 minutes to 12 hours after the elastomer is set without priming or surface preparation. To improve top coat adhesion on old elastomer Z-4667 polyurethane primer may be used.

**Typical Physical Properties:**

**Hardness:** 90 Shore A

**Tensile Strength:** 2500 psi

**Elongation:** 200%

**Tear Strength:** 175 pli

**Chemical Resistance:**

Z-4551 Instant-Set has the chemical resistance associated with polyurethanes and will resist attack from common organic and inorganic acids and bases. No permanent damage is done after a four hour exposure at room temperature to 50% H<sub>2</sub>SO<sub>4</sub>, 35% HCL, 100% Acetic Acid, 50% NaOH, and 15% NH<sub>4</sub>OH. Swelling and subsequent loss of adhesion may result from prolonged exposure to active organic solvents such as chlorinated hydrocarbons, ketones, acetates, glycol ethers, or aromatic hydrocarbons.

**Equipment:**

Z4551 Instant-Set has been tested by Gusmer, Graco & Binks with excellent results. It is currently being used in the Gusmer H-V, Graco Polytec System I, and custom units engineered by Spray Quip of Houston, Texas.

**Options:**

Patch Mix: A slower setting version of Instant -Set which can be mixed by hand to repair damaged sections or to coat places which cannot be sprayed.

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