



## Development Associates, Inc.

300 Old Baptist Road, N Kingstown, R I 02852  
Telephone (401) 884-1350 FAX (401) 885-7888  
Email:sales@daius.com Web:www.developmentassociatesinc.com



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# Data Sheet Z-5515 Instant Set Elastomer

Product Name: Z-5515 INSTANT SET

Date: 6/16/2003  
Supercedes: May, 1991

**Description:** Z-5515 is an aromatic/polyether polyurethane elastomer which is supplied as two medium viscosity liquids. Immediately after mixing, curing begins with a rapid viscosity rise and gellation. 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-5515 can be used as a protective coating for fiberglass reinforced plastics, metal, polystyrene foam products and a variety of other substrates. Primers such as Z-4667 and I-1022 are available to improve adhesion to some substrates. Diaflex top coats are available to provide a light stable color coat.

**Hazards:** Z-5515 Polyol is non-hazardous and for industrial use only, read and understand MSDS before use. Z-575/5511 ISO contains an aromatic isocyanate and must be handled with care. Z-575/5511 ISO DOES NOT contain TDI. Caution and adequate ventilation must be used, personal breathing protection should be used when this product is sprayed, read and understand MSDS before use.

### Storage:

Store in sealed containers in a dry place @15-40°C.

### Component Z-5515 Part A

#### Typical Liquid Properties:

<b>Appearance:</b>	A black colored liquid which should be stirred well before using.
<b>Specific Gravity:</b>	1.18 @ 25°C.
<b>Weight per gallon:</b>	9.82 lbs.
<b>Brookfield Viscosity:</b>	500-1500 cps. RVT #2 spindle, 20 rpm @ 25°C.

### Component Z-455 Part B

#### Typical Liquid Properties:

<b>Appearance:</b>	A light yellow liquid.
<b>Specific Gravity:</b>	1.13 @ 25°C.
<b>Weight per gallon:</b>	9.40 lbs.
<b>Brookfield Viscosity:</b>	1000-2000 cps. RTV #2 spindle, 20 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-5751 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:** 80 Shore A

**Tensile Strength:** 1500 psi

**Elongation:** 175%

**Tear Strength:** 175%

**Water Absorption:** 2.05% 30 days @ RT in 5% salt water.

**Chemical Resistance:**

Z-5515 Instan-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:**

Z-5515 Instan-Set can be used with the Gosmer HV spray unit, Binks or Graco units.

**Options:**

**Colors:** Pigmentation of Instan-Set at the factory is available.

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

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