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Data Sheet

Z-5751 Instant Set Silver Shield

Product Name: Z-5751 INSTANT SET

Date: 6/16/2003
Supersedes: June, 1991

Description: Z-5751 is a high strength aromatic polyurethane elastomer which is especially formulated as a spray in place membrane for the protection of spray foam roofing systems. The product is tack free in 3-10 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. The high strength and elongation of this membrane make it resistant to the effects of heat, cold, birds and hail. Z-5751 is flame retardant and the free film is self extinguishing. The aluminum pigmentation and internal ultraviolet light absorbers provide excellent protection from sunlight for polyurethane foam and other light sensitive substrates. Primers such as Z-4667 and I-1022 are available to improve adhesion to many substrates. Diaflex top coats are available to provide a light stable color coat. Z-5751 is UL-790 classified.

Hazards: Z-5751 Part A is non-hazardous and for industrial use only. Z-575/5511 Part B contains an aromatic isocyanate and must be handled with care. Z-575/5511 Part B 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 @ 15-40C. Shelf life in unopened cans is six months.

Component Z-4551 Part A

Typical Liquid Properties:

Appearance: A silver-grey colored liquid which should be stirred well before using.
Specific Gravity: 1.50 @ 25°C.
Weight per gallon: 12.50 lbs.
Brookfield Viscosity: 1500-3000 cps. RVT #3 spindle, 20 rpm @ 38°C.

Component Z-455 Part B

Typical Liquid Properties:

Appearance: A light yellow liquid.
Specific Gravity: 1.14 @ 25°C.
Weight per gallon: 9.50 lbs.
Brookfield Viscosity: 100-600 cps. RTV #3 spindle, 20 rpm, @ 30°C.

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Mixing Information:

Ratio by Weight: Part A 57
Part B 43

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: 75 Shore A

Tensile Strength: 2200 psi

Elongation: 300%

Tear Strength: 150%

Chemical Resistance:

Z-5751 Instant-Set has the chemical resistance associated with polyurethanes and will resist attack from common organic and inorganic acids and bases. 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-5751 can be sprayed by most high pressure plural component spray systems.

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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