



TECHNICAL DATA

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SOFT-PLAY 8553 ALIPHATIC URETHANE ELASTOMER

Product Description

A two component, elastomeric aliphatic urethane which exhibits long-term color retention and is recommended for applications which require abrasion and impact resistance, flexibility and weatherability.

Features

- Excellent Color Stability
- Super Tough
- High Volume Solids
- Convenient Mixing Ratio

Recommended Uses

The one coat system provides excellent slip resistance for multiple uses and is designed for ease of maintenance and long service life.

Chemical Resistance

| Chemical | Results |
|--------------------|--|
| Gasoline | No Effect |
| Gasohol | No Effect |
| Diesel | No Effect |
| Motor Oil | No Effect |
| Antifreeze | No Effect |
| Transmission Fluid | No Effect |
| Deicing Salts | No Effect |
| 5% Sulfuric Acid | No Effect |
| Brake Fluid | Slight Softening and moderate swelling |

Note: ASTM D-471 Immersion: 40 mil films of SOFT-PLAY 8553 were placed in the above solutions at 75°F for a period of 30 days. These are laboratory results and should be used only as a guide.

Typical Properties

| | |
|---|------------------------------|
| Solids by Volume (ASTM D-1353) | 52% |
| Volatile Organic Compounds | 4.2 lb/gal (496 g/l) |
| Theoretical Coverage | 834 mil ft ² /gal |
| Recommend DFT | 8 to 12 mils. |
| Number of Coats | Normally 1 |
| Mix Ratio (by volume) | 1 "A" : 1 "B" |
| Flash Point Pensky Martens Closed Cup | 84°F (29°C) |
| Color: | White |

Specification Data

| | |
|--|---|
| Elongation – ASTM D 412 | 285 psi |
| Tensile Strength – ASTM D 412 | 1900 psi |
| Hardness – ASTM D 2240 | 75 Shore A |
| Accelerated Weathering ASTM G-53-Q-UV, D822 Atlas Carbon | Excellent after 3000 hours. No evidence of checking, delamination or loss of flexibility |
| Low Temperature Flexibility (D-1737) | Passes |
| High Temperature Resistance (D-573 Continuous Intermittent) | 180°F (82°C) 225°F (110°C) |
| Abrasion Resistance ASTM D 4060 CS-17 Wheel - 1000 cycles, 1000 g | 20 mg. loss |

Ordering Information

| | |
|-------------------------|------------------------|
| Packaging: | 2 gal kits |
| Shipping Weight: | 11.0 lb/gal (5 kg/gal) |

APPLICATION INFORMATION

SOFT-PLAY 8553

Method

May be applied by single or two component spray equipment

Cure Time

| | 45°F (7°C) | 75°F (23°C) | 90°F (32°C) |
|--------------------|---------------|----------------|----------------|
| Dry Surface | 18-24 hours | 6-8 hours | 4-6 hours |
| Full cure | 5 days | 3 days | 2 days |

Topcoating

When using as a finish coat, it is important that the basecoat be free from foreign materials prior to application of topcoats. For maximum adhesion, top coating must occur within 24 hours of the previous coat.

Should more than 24 hours elapse, contact ITW Futura Coatings for primer recommendations and procedures.

Recoating Other Surfaces

Contact ITW Futura Coatings for recommendations.

Pot Life

The usable working life of the catalyzed material is as follows:

| Temperature | Pot Life |
|---------------------|---------------|
| 50°-70°F (10-21°C) | 2-3 hours |
| 70°-80°F (21-26°C) | 1-1/2-2 hours |
| 80°-90°F (26-32°C) | 1-1-1/2 hours |
| 90°-100°F (32-37°C) | ¾-1 hour |

Application Temperatures

| | Material | Surface |
|---------|--------------|--------------|
| Minimum | 45°F (7°C) | 45°F (7°C) |
| Maximum | 110°F (43°C) | 115°F (46°C) |

NOTE: Applied coating has minimum requirements of 3 to 4 hours at 45°F to 50°F of both air and substrate temperature to reach a weather insensitive film.

Clean Up

Use a 1:1 mixture of Xylol and MEK or Xylol.

Safety Information

- Read the Material Safety Data Sheet (MSDS) and container labels for detailed health and safety information.
- Do not apply material in enclosed areas without adequate air exchange and ventilation.
- All application personnel must use respirators rated for organic vapors, or in confined spaces wear fresh air respirators or fresh air hoods.
- Wear protective clothing, gloves and eye protection.
- Breathing fumes or contact with the skin may cause severe allergic reactions.
- This product contains flammable solvents! Keep away from all sparks, flames and hot surfaces.
- **This product is intended for industrial use by properly trained professional applicators only.**

Storage Conditions

- Urethane coatings need to be protected from moisture contamination. Store drums and pails in a dry location at 55-80°F (11-27°C).
- Materials **must** be kept above 50°F (10°C).

ITW FUTURA COATINGS, 1685 GALT INDUSTRIAL BLVD., ST LOUIS, MO, (314) 733-1110

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