



DuraBull™

HEAVY-DUTY PROTECTIVE COATING

BUL100190 POLYUREA PROTECTIVE COATING - BLACK SMALL AREA REPAIR MATERIAL

DBPB-004

Product description

Component A - RBDL1724F Component B - CAT133

RBDL1724F is a two-component, zero-VOC, heavy-duty, protective coating engineered to touch up or repair small areas sized one inch in diameter or smaller. Made from specially designed Aliphatic Polyurea technology, DuraBull™ blends superior UV protection with unmatched physical protection.

Advantages

- Aliphatic Polyurea
- Zero VOC
- HAPS-free
- Highly durable
- Variable texturing for the right look and feel
- Tough and flexible over wide temperature range
- Air dry – no ovens required
- Tack Free in 85 seconds
- Superior corrosion protection, including to MgCl
- Maintains original gloss and color in UV, Xenon WOM and Florida exposure testing without chalking or fading
- Excellent chip, abrasion, impact, gouging, tearing and chemical resistance
- Capable of reducing noise

Applications

Mix Ratio by Volume:

RBDL1724F	:	CAT133
1	:	1

Apply: See repair process instructions.

Application Conditions: Temperature: 65° – 110°F (18° – 43°C)
Humidity: 20 – 80%

Drying Times @ 70°F (21°C): Tack Free Time : 85 seconds
Dry to Touch: 30 – 60 minutes

Recommended Dry Film Thickness: Same as area surrounding small repair

Safety Equipment for Manual Application: See MSDS



POLYUREA PROTECTIVE COATING - BLACK SMALL AREA REPAIR MATERIAL

Specification Testing

Test	Result
Adhesion over primer or sanded polyurea	Acceptable adhesion (>16 lbs/li peel strength or 500 psi Elcometer) obtained on many clean, dry coated substrates with no scuffing required. Tenacious adhesion (>30 lbs/li or 1000 psi Elcometer) to all electrocoat and primer coatings tested and very good adhesion (>20 lbs/li or 750 psi Elcometer) to most topcoat systems.
Weathering	Minimal Gloss loss with no chalking or fading at 1 & 2 yrs. FL, 5000+kj Xenon WOM.
Environmental Cycle	No appearance or performance change after 10 cycles: -40°F (-40° C) to 12 Hours Humidity to 164° F (90°C).
*Immediate Environmental Exposure	No appearance or performance change when, 15 minutes after application, panels coated with Polyurea Coating are exposed to 240 Hours Water Soak at 73°F or 104°F (23° or 40°C).
Heat Distortion Resistance	Minimal damage after 8 hours at 185°F (85°C) with 12 lbs/in ² force applied.
Heat Resistance	No appearance or performance change after 500 hours at 164° F (90°C).
Cold Resistance	No appearance or performance change after 3 hours at -40°F (-40°C).
*Freezer Cycle	No adhesion loss after 10 cycles: : -22°F to 73°F (-30°C to 23°C), on panels tested 15 min. after application.
Water Soak Resistance	No appearance or performance change after 240 hrs at 104°F (40°C).
Hot Water Resistance	No appearance or performance change after 240 hours at 95%RH &122°F (50°C).
Humidity Resistance	No appearance or performance change after 240 hours at 95%RH &122°F (50°C).
Salt Spray Resistance	No appearance or performance change after 1000 hours.
Salt Water Resistance	No appearance or performance change after 120 hours at 104°F (40°C).
Corrosion Resistance	No appearance or performance change after 100 cycles of Compound Corrosion Test.
Magnesium Chloride (MgCl₂) Resistance	No effect after exposure to 80 cycles of the cyclic corrosion test, SAE-J2334, using a 3% aqueous solution MgCl ₂ as the electrolyte.
Adhesive Resistance	No trace of gauze after 1 hr. at 164° F (90°C).
Chemical Resistance	No appearance or performance change after: 24 hours Spot Testing with H ₂ SO ₄ (10% solution) 4 hours Spot Testing with 5% Caustic Soda 24 hours after 1 hr. Spot Testing with Cedar Oil (Class1 Reagent) and Albumin 24 hours Immersion Testing with Class 3 Antifreeze and SJ 5W-30 Engine Oil 24 hours after 45° Angle Drip Testing with Leaded & Lead-free Gasoline or Soak Testing with Lead-free and E85 Gasoline 24 hours Spot Testing of Windshield Washer Fluid
Solvent Resistance	No appearance or performance change 24 hours after 45° Angle Drip Testing with Ethanol, MEK, Isopropyl, Alcohol and Naphtha.
Scratch Resistance	Minimal change after 10 and 30 cycles on Crockmeter.
Abrasion Resistance	Minor Gloss loss and no film loss observed after: 100 cycles in Taber Test with CST10 wheel at 500g load 400 cycles in "A" Nail Test with 907g load 10 & 30 strokes in Crockmeter Test with 800 grit paper.
Impact Resistance	No damage observed when 500g weighted steel ball is dropped from a height of 100 cm onto Polyurea Coated panels at room temp -40°F (-40°C).
Chip Resistance	No damage observed in SAEJ400 Gravelometer Testing using No. 6 & 7 Crushed Stone, 5 cups of No. 8 Road Gravel, and Hexagon Nuts with panels at 77°F and -4°F (25°C and -20°C).

Specification Testing continued

Test	Result
Tear Resistance	Tear strength is 350 lbs. PLI (per linear inch) in ASTM D624 Die C.
Hardness	Shore A: 95+, Shore D: 70 – 74.
Tensile Strength	2320 – 2900 when measured with ASTM D412.
Elongation	130 – 160% when measured with ASTM D412.

** All testing conducted on panels 72 hours after Polyurea Coating application, unless otherwise stated.*

Technical Properties

	RBDL1724F	CAT133	RBDL1724F : CAT133
Volume Ratio:	package	package	1 : 1
Applicable Use Category	Underbody Ctg., Other Ctg.	Underbody Ctg., Other Ctg. (Hardener)	Underbody Ctg., Other Ctg.
VOC Actual (g/L)	20.5	15	5
VOC Actual (lbs/gal)	0.17	0.13	0.04
VOC Regulatory (less water less exempt) (g/L)	20.5	15	5
VOC Regulatory (less water less exempt) (lbs/gal)	0.17	0.13	0.04
Density (g/L)	1025	1091	1058
Density (lbs/gal)	8.55	9.10	8.83
Volatiles wt. %	2.0	1.4	0.5
Water wt. %	0.0	0.0	0.0
Exempt wt. %	0.0	0.0	0.0
Water vol. %	0.0	0.0	0.0
Exempt vol. %	0.0	0.0	0.0
Brookfield Viscosity @ 73°F (23°C):	1200-2000	1800 – 2900	–
Flash Point (Closed Cup):	420°F (216°C)	420°F (216°C)	–
Tensile Strength:	–	–	2000-3000
Hardness (Shore D):	–	–	60-69
Elongation (%):	–	–	150-300
Young's Modulus (MPa):	–	–	500
Substrate Type:	–	–	Repair only
Color:	Black	Clear	Black
Storage Temperature:	50 – 100	50 – 100	–
Pumping Temperature	–	–	–
Shelf Life (Unopened):	12 Months	12 Months	–

Health and Safety

Please refer to Material Data Safety Sheets (MSDS) for full health safety details and storage regulations.

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.
Polyurea Protective Coating - Black (RBDL1724F) Catalyst for Durabed (CAT133)

EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION (412) 434-4515; IN CANADA (514) 645-1320

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the public. Products mentioned may be hazardous and should only be used according to directions, while observing precautions and warning statements listed on label. Statements and methods described are based upon the best information and practices known to PPG Industries. Procedures for applications mentioned are suggestions only and are not to be construed as representations or warranties as to performance, results, or fitness for any intended use, nor does PPG Industries warrant freedom from patent infringement in the use of any formula or process set forth herein.

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