

DRAGONHIDE™ heavy-duty protective coatings offer outstanding resistance to abrasion, impact, scratch, mar and chip damage. These two-component, polyurea-based coatings provide a high level of toughness and flexibility over a wide range of temperatures, offering protection for a variety of applications.

### Advantages

- Zero VOCs (Volatile Organic Compounds)
- HAPs-free (Hazardous Air Pollutants)
- Variable texturing for the right look and feel
- Tough and flexible over wide temperature range
- Air dry – no ovens required
- Tack-free in under a minute
- Outstanding corrosion protection
- Excellent chip, abrasion, impact, gouging, tearing and chemical resistance
- Capable of reducing noise

### Application

**Mix Ratio by Volume**      Resin : Cross-Linker (1:1)

**Recommended Dry Film Thickness**

The number of coats depends on the application. 2-3 coats will produce 40-60 mils. Additional coats may be applied for improved protection.  
 Minimum recommended film build: 40 mils  
 Film build of 80 – 100 mils is recommended for substrates that may see very severe conditions and/or require maximum protection.

**Drying Times @ 70° F (21° C)**

Tack-free:            Under a minute  
 Dry to touch:        2 minutes

**Spray Booth**

Temperature:        70° – 90° F (21° – 32° C)  
 Humidity:            35 – 80%    Dry surface is required (no condensation)

**Spray Temperature of Material**

135° – 155° F (57° – 68° C)

**Equipment Set-Up**

Spray gun type:        Direct impingement  
 Spray gun pressure:    2,000 – 2,500 psi  
 Please contact your PPG representative for additional equipment details.

**Specification Testing** All testing conducted 72 hours after *DragonHide* coatings application unless otherwise stated.

<b>Adhesion</b>	Acceptable adhesion (>16 lb/li peel strength or 500 psi ELCOMETER® units) obtained on many clean, dry, coated substrates with no scuffing required. Tenacious adhesion (>30 lb/li or 1,000 psi <i>Elcometer</i> units) to most electrocoat and primer coatings tested and very good adhesion (>20 lb/li or 750 psi <i>Elcometer</i> units) to many topcoat systems. <b>NOTE:</b> Adhesion should always be confirmed with samples of coated substrates.
<b>Heat Distortion Resistance</b>	Minimal damage after 8 hours at 185° F (85° C) with 12 psi force applied.
<b>Humidity Resistance</b>	No appearance or performance change after 240 hours at 95% RH (relative humidity) and 122° F (50° C).
<b>Salt Spray Resistance</b>	No appearance or performance change after 1,000 hours ASTM B117.
<b>Adhesive Resistance</b>	No trace of gauze after 1 hour at 194° F (90° C).
<b>Solvent Resistance</b>	No appearance or performance change after 24 hours of 45° angle drip testing with methyl ethyl ketone (MEK), isopropanol, methanol, xylenes and butyl acetate.
<b>Abrasion Resistance</b>	Minor gloss loss and no film loss observed after 1,000 cycles in TABER® test with CST10 wheel at 500 g load.
<b>Impact Resistance</b>	No damage observed when 500g weighted steel ball is dropped from a height of 100 cm onto <i>DragonHide</i> -coated panels at room temperature and at -40° F (-40° C).
<b>Chip Resistance</b>	No damage observed in SAEJ400 and GMW14700 gravelometer testing using 40 pints of 8-16 mm crushed stones with panels at -4° F (-20° C).
<b>Hardness</b>	Shore D: 45 – 55.
<b>Tensile Strength</b>	2,600 – 4,000 psi when measured with ASTM D412.
<b>Elongation</b>	300+% when measured with ASTM D412.

**Technical Properties**

	<b>Resin</b>	<b>Cross-Linker</b>
<b>Weight Solids (%)</b>	100%	100%
<b>BROOKFIELD® Viscosity @ 73° F (23° C)</b>	900 – 1,600 cP	400 – 800 cP
<b>Shelf Life (Unopened)</b>	12 months	12 months
<b>Storage Temperature</b>	50-100° F (10-38° C)	50-100° F (10-38° C)
<b>Pumping Temperature</b>	50-100° F (10-38° C)	50-100° F (10-38° C)

The technical data presented in this document is based upon information currently believed to be accurate. However, no guarantees of accuracy, comprehensiveness, or performance are given or implied. Continuous improvements in coatings technology may cause future technical data to vary from what is in the bulletin. Contact your PPG representative for the most up-to-date information.

Consult individual Material Safety Data Sheets and Environmental Data Sheets for critical safety and environmental information.



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