Imagined for Life. Enabled by Science.™

# Lubrizol

## Resins Product Guide for Paints and Coatings





## **Enabling Customer Success**

#### INDUSTRY KNOWLEDGE

With an experienced team of coating, ink, and composite specialists, Lubrizol is dedicated to close collaboration with customers and industry experts to gain and share industry knowledge, insights, and solutions.





#### QUALITY

From product development to production and distribution, we carefully control all processes to ensure the quality of our products and to enable customers to gain a competitive edge.

#### INNOVATIVE SOLUTIONS

Lubrizol invests in market-driven innovation to address relevant and timely coatings challenges and opportunities for customers.

#### **ON-TIME DELIVERY**

Product availability and on-time delivery are vital to any business. To answer these needs, Lubrizol has a worldwide network of distribution points. This comprehensive network provides immediate access to customer service.





#### WOOD COATINGS

Lubrizol has the key ingredients to improve many wood coating formulations. With a wide variety of resin technologies for residential and commercial applications, we help formulators meet performance and aesthetic preferences while maintaining regulatory requirements and sustainability targets.

### BUILDING AND CONSTRUCTION COATINGS

Lubrizol specialty chemical solutions deliver value for coatings manufacturers, architects, builders, and building owners. Our advanced portfolio of resins and polymers are commonly used in masonry coating, concrete coating, elastomeric coating, liquid roof coating, mortar modification and other building and construction coating products to beautify and strengthen a diverse range of interior and exterior surfaces. With advanced Lubrizol technologies, formulators can improve coating performance and production efficiency. Contractors and architects can shorten construction schedules and reduce labor costs. Property owners will enjoy longlasting, visually appealing surfaces.



#### INDUSTRIAL COATINGS

Lubrizol innovates technologies for a variety of industrial metal coating applications. Our resin technologies enhance key performance attributes, imparting superior corrosion resistance, scratch and mar resistance and improved overall performance. Lubrizol offers primer, topcoat and direct-to-metal resin technologies that offer a superior balance of durability and gloss.

#### TRANSPORTATION COATINGS

Lubrizol innovates cutting-edge chemical solutions for automotive OEM and vehicle refinish applications, such as interior, exterior and underbody coating technologies. We address the challenges that face coating manufacturers, automotive manufacturers and consumers, providing customized solutions and value-added, long-lasting coatings. Our technologies help formulators meet the functionality needs of the most demanding transportation coatings.

### Acrylic/PVDC Technologies

| Product                         | Polymer Type                                    | %<br>Solids | Tg (°C) | MFFT (°C) | % Volume<br>Solids | рН        | Viscosity<br>(CPS) | Specific<br>Gravity | Formaldehyde-<br>Free <sup>1</sup> |
|---------------------------------|---|-------------|---------|-----------|--------------------|-----------|--------------------|---------------------|------------------------------------|
| Acrylic Technologies            | '   | 1           | 1       | I         |                    |           |                    |                     | 1                                  |
| Carboset <sup>®</sup> 2951      | Self-Crosslinking Acrylic<br>Copolymer Emulsion | 44          | -       | <5        | 43                 | 8         | 30 - 250           | 1.01                | Yes                                |
| Carboset <sup>®</sup> 2968*     | Self-Crosslinking Acrylic<br>Emulsion           | 41.5        | -       | 57        | 39                 | 7.5       | 10 - 300           | 1.04                | Yes                                |
| Carboset <sup>®</sup> 3142      | Styrene Acrylic Emulsion                        | 41          | -       | 7         | 40                 | 7         | 10 - 500           | 1.02                | Yes                                |
| Carboset <sup>®</sup> 514H      | Alkali Strippable Acrylic<br>Emulsion           | 40          | 28      | 10        | 38                 | 6.6       | 100 - 500          | 1.05                | Yes                                |
| Carboset <sup>®</sup> 560       | Alkali Strippable Acrylic<br>Emulsion           | 27          | 47      | 17        | 24.5               | 7.6       | <200               | 1.03                | Yes                                |
| Carboset <sup>®</sup> 7722      | Acrylic Emulsion                                | 50          | -       | <5        | 48                 | 8.4       | 40 - 800           | 1.06                | No                                 |
| Carboset <sup>®</sup> 7733      | Acrylic Emulsion                                | 50          | -       | 21        | 46                 | 8.4       | 40 - 800           | 1.06                | No                                 |
| Carboset <sup>®</sup> AE 960*   | Acrylic Emulsion                                | 56          | -25     | <5        | 55                 | 8.2       | <2000              | 1.02                | Yes                                |
| Carboset <sup>®</sup> AMO 400   | Acrylic Oil Modified<br>Copolymer               | 40          | -       | 12        | 37.5               | 7.5       | <500               | 1.06                | Yes                                |
| Carboset <sup>®</sup> CA 1009*  | Acrylic-Polyurethane<br>Polymer                 | 55          | 5       | 2         | 53                 | 8         | 150 - 800          | 1.1                 | Yes                                |
| Carboset <sup>®</sup> CA 600*   | Self-crosslinking Acrylic<br>Emulsion           | 42          | 55      | 35        | 41                 | 8.3       | 41                 | 1.06                | Yes                                |
| Carboset <sup>®</sup> CA 7100RC | Styrene Acrylic Emulsion                        | 48          | -10     | <5        | 49                 | 8.3       | 8.000 - 11000      | 1.01                | Yes                                |
| Carboset <sup>®</sup> CA 7107   | Acrylic Emulsion                                | 50          | 8       | <5        | 47                 | 8.5       | 9000               | 1.05                | No                                 |
| Carboset <sup>®</sup> CA 7120RC | Styrene Acrylic Emulsion                        | 48          | 0       | <5        | 47                 | 8.3       | 8000 - 12500       | 1.01                | Yes                                |
| Carboset <sup>®</sup> CA 7147   | Acrylic Emulsion                                | 47          | -       | 6         | 46                 | 8.8       | 300 -1200          | 1.01                | Yes                                |
| Carboset <sup>®</sup> CA 7160RC | Styrene Acrylic Emulsion                        | 50          | 18      | 21        | 49                 | 8.3       | 2500 - 5000        | 1.01                | Yes                                |
| Carboset <sup>®</sup> CR 3090*  | Styrene Acrylic Emulsion                        | 45          | 37      | 33        | 42                 | 8.5       | <500               | 1.05                | Yes                                |
| Carboset <sup>®</sup> CR 7162E  | Styrene Acrylic Emulsion                        | 41.5        | -       | 23        | 39                 | 8         | 10 - 100           | 1.03                | Yes                                |
| Carboset <sup>®</sup> CR 7181   | Self-Crosslinking Acrylic<br>Emulsion           | 42          | -       | 90        | 39                 | 9         | 50                 | 1.06                | Yes                                |
| Carboset <sup>®</sup> CR 7185*  | Acrylic Emulsion                                | 42          | -       | 40        | 41                 | 8.3       | 5 -120             | 1.03                | Yes                                |
| Carboset <sup>®</sup> CR 765*   | Styrene Acrylic Emulsion                        | 41          | _       | 34        | 40.7               | 8         | 10 - 150           | 1.03                | Yes                                |
| Carboset <sup>®</sup> PL 958*   | Peelable Acrylic<br>Copolymer Emulsion          | 46          | -       | <5        | 43                 | 8         | 40 -125            | 1.07                | No                                 |
| Carboset <sup>®</sup> RPT 3030* | Acrylic Emulsion                                | 55          | -35     | <5        | 53                 | 8         | 200 -1200          | 1.06                | No                                 |
| Carboset <sup>®</sup> SA 850*   | Acrylic Copolymer<br>Emulsion                   | 55          | 10      | <5        | 53                 | 8.5       | 100 - 15000        | 1.04                | Yes                                |
| Carbotac <sup>®</sup> 1811      | Acrylic Emulsion                                | 55          | -43     | <5        | 53                 | 3.5       | 120                | 1.03                | No                                 |
| PVDC Technologies               |   |             |         |           |                    |           |                    |                     |                                    |
| Permax™ 805                     | PVDC Emulsion                                   | 60          | -       | 13.5      | 50.4               | 1.0 - 2.2 | 85                 | 1.28                | Yes                                |
| Permax™ 805B                    | PVDC Emulsion                                   | 60          | -       | 13.5      | 50                 | 1.8       | 85                 | 1.28                | Yes                                |
| 1                               |   |             |         |           |                    |           |                    |                     |                                    |

<sup>1</sup> Ingredient not intentionally added to the composition of this product \*Produced in multiple facilities; product name may vary

|                                 | Building &<br>Wood Construction |     |                 |             |                     |                       |     | ndus<br>anspo |         |                      |   |             |
|---------------------------------|---------------------------------|-----|-----------------|-------------|---------------------|-----------------------|-----|---------------|---------|----------------------|---|-------------|
| Product                         | Floors                          | OEM | Trims & Primers | Liquid Roof | Vertical<br>Masonry | Horizontal<br>Masonry | DTM | Primer        | Topcoat | Temporary<br>Coating | Key Benefits  | Aunderline. |
| Acrylic Technologies            |                                 |     |                 |             |                     |                       |     |               |         |                      |   |             |
| Carboset <sup>®</sup> 2951      |                                 | •   | •               |             | •                   | •                     |     |               |         |                      | Low VOC, exceptional chemical and block resistance, early hardness and external durability also suitable for use in eco-label paints and coatings.  | N/<br>EM    |
| Carboset <sup>®</sup> 2968*     | •                               | •   |                 |             |                     | •                     |     |               |         |                      | Early hardness, sandability with superior chemical resistance; blend vehicle with polyurethanes. Robust water resistance, outstanding gloss/wet look.   | N/<br>EIV   |
| Carboset <sup>®</sup> 3142      |                                 | •   | •               |             | •                   |                       | •   | •             | •       |                      | Low VOC, high gloss, exceptional block and chemical resistance, multi-substrate adhesion including low porous ones, exterior durability; alkyd-like application.  | EN          |
| Carboset <sup>®</sup> 514H      |                                 |     |                 |             |                     |                       | •   | •             | •       | •                    | Dries to a clear, water-resistant, non-tacky thermoplastic film. Adhesion to to a metal and plastic substrate. Alkali removable temporary coatings.   | N/<br>EIV   |
| Carboset <sup>®</sup> 560       |                                 |     |                 |             |                     |                       | •   |               |         | •                    | Designed for use in temporary coatings that require excellent water and UV resistance. Alkali removeable.   | N/<br>EM    |
| Carboset <sup>®</sup> 7722      |                                 |     | •               |             | •                   | •                     |     |               |         |                      | Low VOC, good scrub resistance, early block and print resistance, pigmentable.  | N/<br>EN/   |
| Carboset <sup>®</sup> 7733      |                                 |     | •               |             | •                   | •                     |     |               |         |                      | Low VOC, high gloss, inherent stain removal and washability, early block resistance and great flow and leveling. High exterior durability.  | N.<br>EN    |
| Carboset <sup>®</sup> AE 960*   |                                 |     |                 | •           | •                   |                       |     |               |         |                      | Low VOC, excellent dirt pick-up, balance of elongation and tensile strength, weathering and crack-bridging; suitable for ASTM D6083 compliance.   | N.<br>EN    |
| Carboset <sup>®</sup> AMO 400   |                                 | •   | •               |             |                     |                       |     |               |         |                      | Renewable, low VOC, high melt temperature for high speed sanding, improved toughness, blend vehicle with other resins (47% bio-based content).  | N<br>EN     |
| Carboset <sup>®</sup> CA 1009*  |                                 |     |                 | •           | •                   |                       |     |               |         |                      | High end roof coatings. Low water uptake, bitumen bleed through resistance, excellent exterior durability. Concrete protection. Alkali resistance.  | N<br>EN     |
| Carboset <sup>®</sup> CA 600*   | •                               | •   | •               |             |                     | •                     |     |               |         |                      | Early water resistance, fast drying, great substrate penetration, alkaline, blushing,<br>efflorescence, chemical resistance, non-yellowing and exterior exposure. Blocking<br>resistance.                   | N.<br>EN    |
| Carboset <sup>®</sup> CA 7100RC |                                 |     |                 | •           | •                   |                       |     |               |         |                      | Low VOC, balance of mechanical properties, excellent adhesion to most masonry substrates at high PVC loading, water and alkali resistance.  | EN          |
| Carboset <sup>®</sup> CA 7107   |                                 |     |                 | •           | •                   |                       |     |               |         |                      | Low VOC, excellent water, alkali and weathering resistance. Concrete protection.  | EN          |
| Carboset <sup>®</sup> CA 7120RC |                                 |     |                 | •           | •                   |                       |     |               |         |                      | Low VOC,excellent water, alkali and dirt pick-up resistance, balance of elasticity and tensile strength. Great adhesion to most masonry substrates including terracotta tiles.                              | 1           |
| Carboset <sup>®</sup> CA 7147   |                                 |     | •               |             | •                   | •                     |     |               |         |                      | Small particle size for consolidating primers. Excellent humidity resistance for wet rooms. Low CO2 and high vapour permeability for protection concrete coatings.  | EN          |
| Carboset <sup>®</sup> CA 7160RC |                                 |     |                 |             | •                   | •                     |     |               |         |                      | Low VOC, alkali resistant, excellent adhesion to most masonry substrates at high PVC loading. Under ceramic tiles.  | EN          |
| Carboset <sup>®</sup> CR 3090*  |                                 |     |                 |             |                     |                       | •   | •             | •       |                      | Great corrosion and weathering resistance; adhesion to CRS, phosphated and galvanized steel.  | 1           |
| Carboset <sup>®</sup> CR 7162E  |                                 |     |                 |             |                     |                       | •   | •             | •       |                      | Air and force dry, gloss and semi-gloss, corrosion and humidity resistance; adhesion to plastic, metal and masonry.   | EN          |
| Carboset® CR 7181               |                                 | •   |                 |             |                     |                       |     | •             | •       |                      | Hard, excellent chemical resistance, air and forced dry compatible; adhesion to wood, metal and plastic.  | N<br>EN     |
| Carboset <sup>®</sup> CR 7185*  |                                 |     |                 |             |                     | •                     | •   | •             | •       |                      | Excellent water retention, concrete curing properties and high alkali resistance.<br>Fast dry, resistant to gas, solvents, impact, water and humidity; adhesion to<br>phosphated and stainless steel.       | N<br>EN     |
| Carboset <sup>®</sup> CR 765*   | •                               | •   | •               |             |                     |                       | •   | •             | •       |                      | Balance of performance properties, high gloss, water and humidity resistance, reactive pigment stability; adhesion to CRS, phosphated, aluminum, copper, stainless steel.                                   | N<br>EN     |
| Carboset <sup>®</sup> PL 958*   |                                 |     |                 |             |                     |                       |     |               |         | •                    | Low VOC, high tensile strength for clear and pigmented temporary protection and excellent chemical resistance. Peelable coatings.   | N<br>EN     |
| Carboset <sup>®</sup> RPT 3030* |                                 |     |                 | •           | •                   |                       |     |               |         |                      | Excellent low temperature elasticity for cold climate areas, ASTM D6083 compliance capable, and adhesion to EPDM. Primers and top coat formulations.  | N<br>EN     |
| Carboset <sup>®</sup> SA 850*   |                                 |     |                 | •           | •                   |                       |     |               |         |                      | High alkali resistance for self priming products. Crack-bridging performance and weatherability, resistant to chalking, fading, and water penetration, excellent dirt pick-up and efflorescence resistance. | N<br>EN     |
| Carbotac <sup>®</sup> 1811      |                                 |     |                 |             | •                   | •                     |     |               |         |                      | Long open time polymer for bonding bridge masonry applications.   | EN          |
| PVDC Technologies               | I                               | 1   | 1               | 1           | 1                   | 1                     | 1   | 1             |         | 1                    | ·   |             |
| Permax™ 805*                    |                                 |     |                 |             |                     |                       | •   | •             |         |                      | Low VOC, humidity resistant, increased shelf-life and in-can stability; adhesion to aluminum, CRS, Bonderite 1000, ground and galvanized steel. Rust Convertors and MVT.                                    | N.<br>EN    |
| Permax™ 805B                    |                                 |     |                 |             |                     |                       | •   | •             |         |                      | Low VOC, small particle size, low MVTR, excellent corrosion resistance and durability;<br>adhesion to aluminum, CRS, ground and galvanized steel, potable water applications.                               | N.<br>EN    |

<sup>1</sup> Ingredient not intentionally added to the composition of this product \*Produced in multiple facilities; product name may vary

### Polyurethane Dispersion Technologies

| Product             | PUD Type                                      | % Solvent | % Solids | % Volume Solids | MFFT (°C) | Specific Gravity | pH  | Viscosity in cP | % Amin | 100% Modulus PSI<br>(MPA) | Elongation at Break<br>(%) | Sward Rocker<br>Hardness | Freeze Thaw<br>Stability | Thermal Stability<br>120° F/30 Days | NMP-<br>Free <sup>1</sup> |
|---------------------|---|-----------|----------|-----------------|-----------|------------------|-----|-----------------|--------|---------------------------|----------------------------|--------------------------|--------------------------|-------------------------------------|---------------------------|
| Aptalon™<br>M8120   | Self-crosslinking<br>Polyamide                | 0         | 35       | 34              | 50        | 1.05             | 8.5 | <500            | 0.9    | _                         | _                          | _                        | -                        | _                                   | Yes                       |
| Aptalon™ W8030      | Self-crosslinking<br>Polyamide                | 0         | 35       | 33              | 61        | 1.04             | 8   | <500            | 0.7    | 5129<br>(35.36)           | 176                        | _                        | No                       | _                                   | Yes                       |
| Aptalon™ ∉<br>W8060 | Self-crosslinking<br>Polyamide                | 0         | 36       | 33              | 59        | 1.05             | 8   | <500            | 1      | 4150<br>(32.68)           | 140                        | _                        | No                       | _                                   | Yes                       |
| Permax™ 202         | Polyether                                     | 0         | 41       | _               | -         | _                | 5.4 | 1000            | 0      | 310<br>(2.44)             | 750                        | _                        | Yes                      | _                                   | Yes                       |
| Permax™ 232         | Polyether                                     | 0         | 35       | _               | _         | _                | 5.4 | 750             | 0      | 160<br>(1.26)             | 650                        | _                        | Yes                      | _                                   | Yes                       |
| Sancure™ 861        | Polyether                                     | 0         | 40       | 39              | <5        | 1.02             | 7.5 | <90             | 1.3    | 600<br>(4.72)             | 770                        | 21                       | 1<br>Cycle               | No                                  | Yes                       |
| Sancure™ 970        | Polyester                                     | 0         | 42       | 41              | 42        | 1.06             | 8.4 | 500             | 1.4    | 3100<br>(24.41)           | 360                        | _                        | no                       | _                                   | Yes                       |
| Sancure™ 2715       | Polyether                                     | 0         | 38       | _               | _         | 1.03             | 8   | 500             | 1.4    | 1100<br>(8.66)            | 350                        | 14                       | 3<br>Cycles              | No                                  | Yes                       |
| Sancure™ AU4050E    | Acrylic/<br>Polyester                         | 1.05      | 36       | 32              | 15        | 1.05             | 8   | <125            | -      | _                         | _                          | -                        | _                        | _                                   | Yes                       |
| Sancure™ 20025F     | Polyester<br>High Solids                      | 0.02      | 47       | 45              | <5        | 1.05             | 7.5 | 500             | 1.2    | 300<br>(2.36)             | 1100                       | 5                        | Yes                      | Yes                                 | Yes                       |
| Sancure™ 20041      | Polyester                                     | 0         | 34       | 30              | 22        | 1.05             | 8   | 150             | 1.9    | 3400<br>(26.77)           | 330                        | _                        | _                        | _                                   | Yes                       |
| Sancure™ 20072      | Cationic<br>Polyether                         | 0         | 30       | -               | -         | 1.025            | 6   | 20              | 0.8    | 1000<br>(7.87)            | 900                        | -                        | -                        | -                                   | Yes                       |
| Sancure™ 20898      | Polyester                                     | 3.4       | 29       | _               | -         | 1.06             | 8   | <400            | 1.8    | 4320<br>(34.02)           | 180                        | 48                       | No                       | Yes                                 | Yes                       |
| Sancure™ 20899      | Polyester                                     | 0         | 35       | -               | -         | _                | 8   | <400            | 1.41   | -                         | -                          | -                        | -                        | -                                   | Yes                       |
| Sancure™ 942        | Polyester                                     | 0         | 44       | 30              | 26        | 1.06             | 8   | <500            | 1.56   | 3200<br>(22.06)           | 275                        | -                        | No                       | _                                   | Yes                       |
| Turboset™ 5000HS    | Self-crosslinking<br>Polyether<br>High solids | 0         | 50       | 48              | <5        | 1.04             | 7.5 | <500            | 0.9    | -                         | _                          | -                        | No                       | _                                   | Yes                       |
| Turboset™ Ultra Eco | Self-crosslinking<br>Polyether                | 0.04      | 36       | 35              | <5        | 1.04             | 8.3 | 250             | 0.8    | 2200<br>(17.32)           | 330                        | _                        | No                       | -                                   | Yes                       |
| Turboset™ 2027      | Self-crosslinking<br>Polyester                | 0         | 40       | 35              | 22.5      | 1.07             | 8   | <500            | 1.6    | 2325<br>(18,32)           | 330                        | -                        | No                       | -                                   | Yes                       |

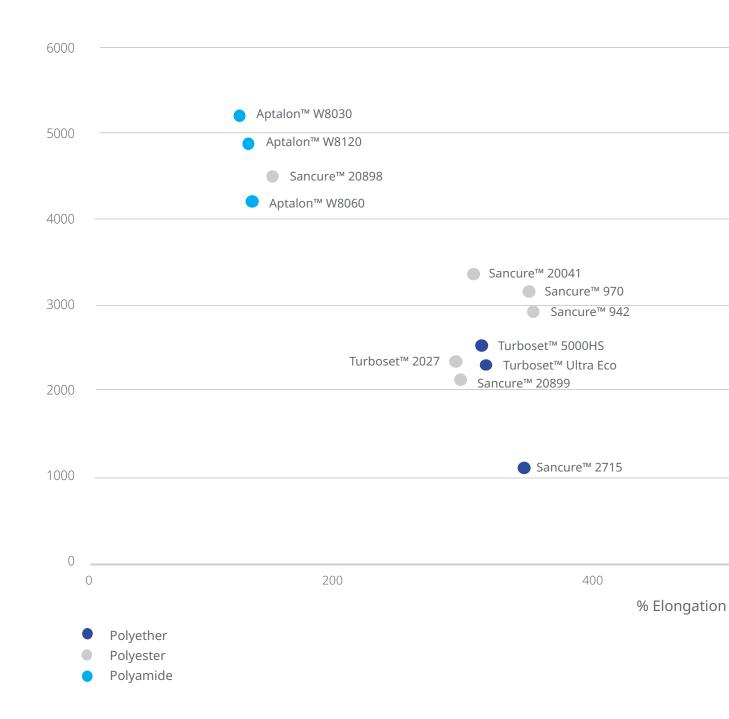
<sup>1</sup> Ingredient not intentionally added to the composition of this product

|                     | Wo     | ood |             | uilding<br>struc |                    | Industrial &<br>Transportation |        |         |                     |  |              |
|---------------------|--------|-----|-------------|------------------|--------------------|--------------------------------|--------|---------|---------------------|--|--------------|
| Product             | Floors | OEM | Liquid Roof | Vertical Masonry | Horizontal Masonry | DTM                            | Primer | Topcoat | Flexible Substrates | Description/Suggested Uses   | Availability |
| Aptalon™<br>M8120   | •      | •   |             |                  | •                  | •                              | •      | •       |                     | 35% Bio C14, amide based, self-crosslinking PUD for direct-to-metal applications, excellent adhesion and outstanding topcoat properties. DTM applications as a single coat solution for a variety of protective and industrial applications. Chemical resistance.                              | NA  <br>EMEA |
| Aptalon™ W8030      | •      | •   |             |                  | •                  |                                |        | •       |                     | Amide based, self-crosslinking, self-matting PUD, low gloss clear and pigmented finishes, high clarity, hardness and resistance properties. Low gloss, high performance wood finishes and metal topcoats.  | NA  <br>EMEA |
| Aptalon™ €<br>W8060 | •      | •   |             |                  | •                  |                                |        |         |                     | 35% Bio C14 amide based, self-crosslinking PUD, balanced properties on<br>a high level, high chemical resistance and low wear. High demanding areas<br>with wooden floors such as sports floors or restaurants.  | NA  <br>EMEA |
| Permax™ 202         |        |     |             |                  |                    |                                |        |         | •                   | "Soft, contolled moisture vapor transmission rates, ionic compatibility.<br>High performance textile coating applications, component of topcoat<br>formulations".  | NA  <br>EMEA |
| Permax™ 232         |        |     |             |                  |                    |                                |        |         | •                   | "Very soft, controlled moisture vapor transmission rates, ionic compatibility.<br>High performance textile coating applications, component of topcoat<br>formulations".  | NA  <br>EMEA |
| Sancure™ 861        |        |     | •           | •                |                    |                                |        |         | •                   | Cosolvent free, abrasion/chemical resistance, hydrolytic stability. Textiles, plastic coatings,roof and metal coatings.  | NA  <br>EMEA |
| Sancure™ 970        | •      | •   |             |                  | •                  | •                              | •      | •       |                     | Versatile composite PUD; high wear and chemical resistance.<br>Residential and commercial wooden or mineral substrates, 1 and 2K<br>application (isocyanate or aziridine).   | NA  <br>EMEA |
| Sancure™ 2715       |        |     |             |                  |                    |                                |        |         | •                   | Cosolvent free, abrasion/chemical resistance, readily crosslinkable,<br>light stable, film former, low VOC, fast property development, medium hard<br>urethane. Textiles, plastic and metal coatings; firms hand, low VOC; tough<br>film with fast property development, medium hard urethane. | NA  <br>EMEA |
| Sancure™ AU4050E    | •      | •   |             |                  | •                  |                                |        |         |                     | Non-yellowing, excellent chemical, abrasion & scuff resistance. Interior wood finishes, clear and pigmented concrete sealers.  | NA  <br>EMEA |
| Sancure™ 20025F     |        |     | •           | •                |                    |                                |        | •       | •                   | Elastic, durable, crosslinkable, low VOC, cosolvent free, adhesion to multiple substrates. Blend resin to modify elasticity. Excellent weatherability.   | NA  <br>EMEA |
| Sancure™ 20041      |        |     | •           |                  | •                  |                                |        |         | •                   | Low VOC, cosolvent free, hard urethane, good compatibility with acrylic polymers and crosslinkable. Developed for coating of rigid substrates, especially wood. Clear coatings.  | NA           |
| Sancure™ 20072      |        |     |             |                  |                    |                                |        |         | •                   | Cationic dispersion, non yellowing, crosslinkable.   | NA  <br>EMEA |
| Sancure™ 20898      |        |     |             |                  |                    |                                |        |         | •                   | Forms very hard, but flexible coatings with good stain- and<br>chemical resistance, fine particle size, abrasion resistance, high gloss.<br>Anti-graffiti coating, vinyl coating, plastic topcoat.   | NA  <br>EMEA |
| Sancure™ 20899      |        | •   |             |                  |                    |                                |        | •       | •                   | Clear, flexible and high gloss coatings. Good adhesion to vinyl, wood, paper<br>and plastic substrates   | NA  <br>EMEA |
| Sancure™ 942        | •      | •   |             |                  | •                  |                                |        |         |                     | A versatile polyurethane dispersion for 1K and 2K systems with good mechanical and chemical resistance properties.   | NA  <br>EMEA |
| Turboset™ 5000HS    | •      | •   |             |                  | •                  |                                |        |         |                     | High solids, TEA free PUD enabler of low VOC formulations for 1K high traffic floor coatings. Good chemical and wear resistance.   | NA  <br>EMEA |
| Turboset™ Ultra Eco | •      | •   |             |                  | •                  |                                |        |         |                     | Ultra low VOC, excellent wear resistance, good chemical resistance,<br>adhesion to multiple substrates incl. solvent borne stains. w VOC floor<br>coatings, 1K, sports floors, high traffic areas.   | NA           |
| Turboset™ 2027      | •      | •   |             |                  | •                  |                                |        |         |                     | Excellent chemical and wear resistance in 1K system. Replacement of 2K WB systems.   | NA  <br>EMEA |

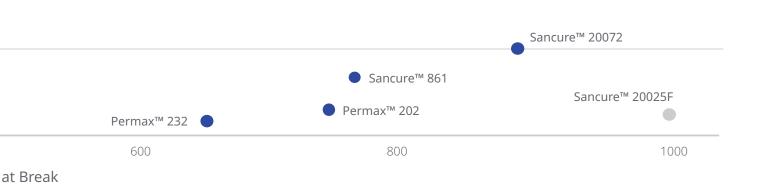
<sup>1</sup> Ingredient not intentionally added to the composition of this product



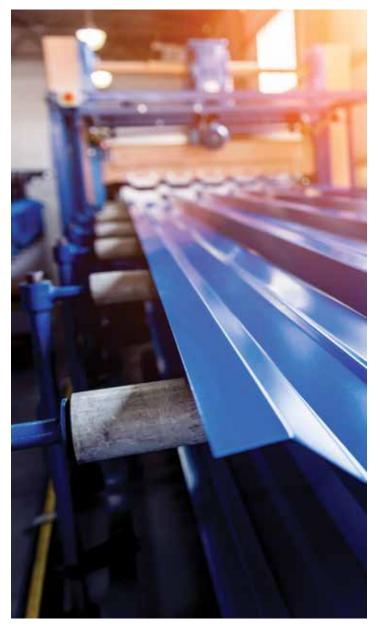
## **Mechanical Properties**











Solution Acrylic Technologies

| Product                     | Polymer Type                              | Solvent |
|-----------------------------|---|---------|
| Doresco® AC4-74             | Solvent-Borne<br>Thermoplastic Acrylic    | Toluene |
| Doresco <sup>®</sup> Cl7208 | Solvent-Borne<br>Thermoplastic Acrylic    | Xylene  |
| Doresco® M6A                | Solvent-Borne<br>Thermoplastic Acrylic    | Xylene  |
| Doresco® OH65               | Hydroxylated<br>Acrylic<br>(2% OH Solids) | Xylene  |
| Doresco® T5T60              | Solvent-Borne<br>Thermoplastic Acrylic    | Toluene |



|         |                 |                 |                 |                  |             | Building &<br>Construction |                    |     | ndustri<br>ansport | al<br>ation |  |               |
|---------|-----------------|-----------------|-----------------|------------------|-------------|----------------------------|--------------------|-----|--------------------|-------------|--|---------------|
| тց (°С) | % Weight Solids | Acid Number     | Viscosity (CPS) | Specific Gravity | Liquid Roof | Vertical Masonry           | Horizontal Masonry | DTM | Primer             | Topcoat     | Key Benefits   | Availability  |
| 50      | 45              | 19.6            |                 |                  |             |                            |                    | •   | •                  |             | Adhesion promoted resin for metal, glass, steel and other metal substrates. Interior and exterior.     | NA  <br>EMEAI |
| 39      | 49              | <10             | 250-1000        |                  |             |                            |                    | ٠   | •                  |             | Multisubstrate adhesion; excellent for primers applications.   | EMEAI         |
| 61      | 50              | <10             | 5700            | 1                | •           | ٠                          | ٠                  | ٠   | ٠                  | •           | Exterior durability and adhesion to multiple substrates.<br>Clear and pigmented formulations.          | EMEAI         |
| 14      | 60              | 2% OH<br>Solids | 2000            |                  |             |                            |                    | ٠   | •                  | ٠           | High adhesion, balanced mechanical properties,<br>hardness and impact resistance.                      | NA  <br>EMEAI |
| 43      | 60              | <10             | 7000            | 1                |             |                            | •                  |     |                    |             | Quick drying road-marking for medium traffic areas;<br>internally plasticized version of Doresco® T6T. | EMEAI         |

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Lubrizol is an innovative, collaborative and trusted partner to the Coatings industry, bringing high-performing dispersant, resin, wax additive, color dispersions, and specialty additive technologies for a wide range of coatings, inks, paper, textiles/ nonwovens, composites and other formulated products. We apply world-class materials science to real-world challenges and collaborate with our customers to enhance the performance, productivity and sustainability capabilities of their products.

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