

Technical Data Sheet

High Performance Clear-coatings

UNIGRIP
DANTECH ELITE COMPOSITES

Technical Data:

Water-dilutable, transparent, non-yellowing 2K polyurethane clear coat for interior/exterior use. Delivers long-term UV and weather resistance with outstanding toughness against impact, wear, and chemical exposure; shock-proof performance. Odorless, non-flammable, easy to clean, and easy to apply (brush/roller/spray)—an ideal transparent finishing layer for long-term protection and lasting appearance.

- High impact & wear resistance: Shock-resistant performance for demanding service.
- UV, Weather & chemical resistance: Maintains gloss and integrity under UV, moisture, and chemical exposure.
- High durability: Excellent resistance to corrosion, abrasion, weathering, heat, and chemicals
- Compatible with most epoxy and PU primers/coatings. Including UNIGRIP 101 and 701 Epoxy Coating.
- Excellent outdoor durability: Engineered for long-term exterior performance.
- Resistant to oils, fats, and many chemicals: Ideal for industrial and marine environments.
- Easy to clean: Smooth, non-porous finish simplifies maintenance.
- Easy to apply: Brush, roller, or spray application for flexible, efficient use.
- Non-flammable
- Odorless
- Versatile use: Suitable as a topcoat on various substrates, including over UNIGRIP 101 and 701 Epoxy Coating.
- Standard Transparent colors: Glossy, Semi-glossy and Matt

Intended use:

- Primary deck surfaces & ramps including steps, wear zones and cap rails etc.
- Swimming pools, Spa's and Jacuzzi's.
- Woods types: Teak, Mahogany, Cedar, Ipe, Iroko, white oak and many more.
- As the finishing layer over compatible primers/topcoats (e.g., epoxy build coats) to combine barrier protection with UV-stable clarity.
- Ideal on steel, galvanized steel, aluminum, and previously coated substrates.
- For high-traffic or chemically aggressive zones

For best results:

Transparent-gloss:

To achieve Best / optimal results:

- 2.0 mils. approx 4.5 mils wet (50-55 microns. approx. 110 microns wet) per layer
- Re-coating without sanding: 8 - 16 hours between layers without sanding
- Then final layer of 2.0 mils (50-55 microns) you get the best result "In High-Gloss"

Transparent-Semi matt:

To achieve Best / optimal results:

- 2.0 mils. approx 4.5 mils wet (50-55 microns. approx. 110 microns wet) per layer
- Re-coating without sanding: 8 - 16 hours between layers without sanding
- Then final layer of 2.0 mils (50-55 microns) you get the best result "In Gloss"

Transparent-matt:

To achieve Best / optimal results:

- 2.0 mils. approx 4.5 mils wet (50-55 microns. approx. 110 microns wet) per layer
- Re-coating without sanding: 8 - 16 hours between layers without sanding
- Then final layer of 2.0 mils (50-55 microns) you get the best result "In Matt-Gloss"

In systems, please allow a maximal drying time of 24 hours between the layers; unless the substrate has been pre-treated.

Spreading rate:

Transparent-Gloss:

Spreading rate (theoretical)

- 40 sqf/lbs or 92 sqf/quarts (=8.2 m²/kg or 9.0 m²/liter) at 2.0 mils (50 microns) dry layer thickness. (approx. 110 microns wet)

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Spreading rate:

Transparent-Gloss:

Spreading rate (practical)

- Approx. 0.36 oz/sqf at 2.0 mils (110 g/m² at 2.0 mils or 50 microns dry layer thickness. (approx. 4.5 mils or 110 microns wet)

(Depending on the conditions of the substrate & application method)

Transparent-Semi gloss:

Spreading rate (theoretical)

- 38.6 sqf/lbs or 89 sqf/quarts (=7.9 m²/kg or 8.7 m²/liter at 50 microns) dry layer thickness. (approx. 2.0 mils or 110 microns wet)

Spreading rate (practical)

- Approx. 0.36 oz/sqf at 2.35 mils (110 g/m² at 60 micrometer dry layer thickness. (approx. 4.5 mils or 110 microns wet)
- (Depending on the conditions of the substrate & application method)

Transparent-Matt:

Spreading rate (theoretical)

- 40sqf/lbs or 92sqf/quarts (=8.2 m²/kg or 9.0 m²/liter) at 50 micrometer dry layer thickness. (approx. 110 microns wet)

Spreading rate (practical)

- Approx. 0.36 oz/sqf at 2.0 mils (110 g/m² at 50 micrometer dry layer thickness. (approx. 4.5 mils or 110 microns wet)
- (Depending on the conditions of the substrate & application method)

Mixing Ratio:

Mixing ratio 3:1 (delute by adding 10-25% water - see below chart)

Weight: 75.00 A (Base) to 25.00 B (Activator) (parts by weight)

Pot life

When mixed for application for brush or roller

Pot Life @ 68 °F (20 °C) Approx. 2 hours of 4 kg mixed product

Cleaning instructions:

With water and afterwards with Brush thinner PU / Spray thinner PU.

(Product may not be cured).

Application:

Brush, roller, air-spray or airless-spray

Transparent-Gloss:

- Processing Brush/roller 15 - 20% water

Transparent-Semi Gloss:

- Processing Brush/roller 10 - 15% water

Transparent-Matt:

- Processing Brush/roller 15 - 20% water

Spraying:	Air-spray	Airless-spray
Pressure 1.0 1.5 mm	0.3 0.4 mPa (3-4 atm.)	8 10 mPa (80 -100 atm.)
Opening	1.0 1.5 mm	0.23 mm (0.009 inch)
Dilution	20 25% water	20% water

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Application:

Application Temperature 5 - 35°C

Remark: The application of two component products should happen at a relative humidity between 40 & 85% in an ambient and substrate temperature higher than 5 degrees centigrade; the temperature of the substrate has to be 3 degrees centigrade above dew point. The maximum strength and resistance of the applied system is reached after sufficient curing. This corresponds with a drying period of 7 days at 20 degrees centigrade or so much shorter or longer corresponding to a higher or lower curing temperature.

Mixing instructions

Add component B to component A. Mix intensive and mechanically till homogenous. Thereafter add water to get to the ideal viscosity for the application (see chart above)

Substrate:

- General compatible with Epoxy and PU primers & coatings.

Substrate conditions

- The substrate must be clean, dry, grease & dust-free and comply with the normal applicable conditions and requirements
- Overcoating Epoxies and PU's (based on intervals as stated in the PDS's "Over-coating Intervals")

Drying time

(20°C / 65% R.H.)

-Wet in Wet applications

- After approx. 60-75 min (Allow approx. 60-75 minutes between layers before applying the next layer)

-Dust-free:

- After approx. 3 hours

-Re-Coatable¹⁾:

- After approx. 8-16 hours

-Light traffic:

- After approx. 12-16 hours

1) In systems, please allow a maximal drying time of 24 hours between the layers; unless the substrate has been pre-treated.

2) PU Topcoats-Ensure the epoxy primer is fully cured according to the manufacturer's specified curing time

Over-coating epoxies / intervals

"Estimates "only" for the over-coating interval between layers "without sanding" using a common curing heuristic"

20 °C (68 °F) → 16–24 hrs. / 65% RH

- 25 °C (77 °F): ≈ 11.5–17.0 hrs
- 30 °C (86 °F): ≈ 8.0–12.0 hrs
- 35 °C (95 °F): ≈ 5.5–8.5 hrs

20 °C (68 °F) → 18–26 hrs. / 80% RH

- 25 °C (77 °F): ≈ 13.0–20.0 hrs
- 30 °C (86 °F): ≈ 9.0–14.0 hrs
- 35 °C (95 °F): ≈ 6.5–10.0 hrs

Notes: These are practical estimates; actual windows depend on resin/hardener, film build, airflow, and substrate temperature. Always follow your product TDS (including max re-coating window) and keep the surface ≥ 3 °C (~5 °F) above dew point.

Flash point:

- Component A: > 100°C (DIN 53213)
- Component B: > 100°C (DIN 53213)

Safety measures:

The local and national legislation for health & safety, environment will apply for the user. Please consult the latest version of the Material Safety Data Sheet of this product.

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Availability:

“UNIGRIP Item 120:

- Glossy: 0.84 Quart kit / lbs (0.8 ltr / kg)
- Glossy: 1.05 gal kit / lbs (4.0 ltr / kg)

UNIGRIP Item 121:

- Semi-glossy: 0.84 Quart kit / lbs (0.8 ltr / kg)
- Semi-glossy: 1.05 gal kit / lbs (4.0 ltr / kg)

UNIGRIP Item 122:

- Matt: 0.84 Quart kit / lbs (0.8 ltr / kg)
- Matt: 1.05 gal kit / lbs (4.0 ltr / kg)

Shelf Life:

UNIGRIP Clear Coatings Item # 120, 121 and 122 should be stored out of direct sunlight in dry frost-free conditions of temperatures between 5°C and 20°C. Under such conditions shelf life will be at least 12 months from the date of manufacture. One year minimum from date of shipment when stored in original, unopened container in a dry area at temperatures below 75°F (24°C).



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