GLASS GUARD

Polycarbonate polymer protection

November 2025, Version 01
Technical Data Sheet

DESCRIPTION

GLASS GUARD is part of the One Day Polish system: Step 1 is a densify and polish step, and Step 2 is a Guard that protects from food and drink acids and stains and can be continuously burnished. **GLASS GUARD** is a single component, polycarbonate polymer that provides abrasion and chemical stain resistance to polished concrete created with **GLASS DENSIFIER**

GLASS GUARD is the most stain resistant guard product on the market, providing several hours to permanent protection against coffee, vinegar, pickle juice, red wine, soda and others common stain causing agents. **GLASS DENSIFIER** is applied with a microfiber pad, and burnished with a 3000 grit diamond pad followed by a white buffing pad

The **One Day Polish System** significantly reduces time to polish concrete, while also providing high chemical and abrasion resistance to concrete

FEATURES

- VOC-Compliant, Low Odor, Water-based formula
- Single component, microfiber on clear polymer
- Excellent shine retention
- Excellent abrasion resistance
- Excellent chemical and stain resistance
- Non-yellowing, UV stable
- Easily burnish with white pad to pop shine if wear occurs
- Easy-clean effect greatly reduces maintenance costs

TYPICAL USES

- Over **GLASS DENSIFIER**
- Concrete floors
- Concrete countertops

COLORS

Milky white, always dries clear

PACKAGING

1 gallon buckets, 5 gallon pails, 55 gallon drums, 275 gallon totes

STORAGE

12 months in factory delivered, unopened drums
Store on pallets and keep away from extreme heat, freezing, and moisture. Store at temperatures between 50 °F and 80 °F (10 °C and 27 °C)

MIXING

Ready to use. There is no need for mixing or diluting

COVERAGE

Calculation for theoretical coverage: 800-1000 sq ft/gal on Concrete @ Recommended application rate 2 mils WFT (Wet Film Thickness)

SURFACE PREPARATION

- Protect all surfaces not designated for coating application
- Do not apply to surfaces that are frozen, dirty, or have standing water, grease, oil or other contaminants. Intended surfaces must be clean, dry and absorbent
- Confirm surface absorbency with a light water spray - intended surface should wet uniformly. If surface does not wet uniformly, use a recommended cleaner, auto scrubber, power washer or other process to remove surface contaminants
- Surface must be clean and dry prior to application

EXISTING POLISHED CONCRETE

- Intended surface must be clean, dry and structurally sound
- Remove any and all contaminants including bond breakers, surface grease and oil, dust and debris.
- For larger surface areas, use an autoscrubber with an appropriate cleaner
- Surface must be dry prior to application of **TECNODRY** products.
- Once existing floor is clean and dry, **GLASS GUARD** may be applied

NEW CONCRETE REQUIRING POLISHING

- New concrete must be cured out at least 28 days. If a specific aggregate exposure is required, grind concrete as normal to exposure aggregate
- Once aggregate is exposed, bring concrete to a 100 transitional profile. Ensure all deep surface scratches are removed with the 100 transitionals prior to applying **GLASS DENSIFIER**, surface scratches will transfer through if not removed
- Remove all dust, debris and contaminants from surface after 100 transitional profile is achieved
- Once surface is clean and dry, **GLASS DENSIFIER** is ready to be applied. After **GLASS DENSIFIER** has been burnished to desired sheen, **GLASS GUARD** may be applied

EXISTING CONCRETE REQUIRING POLISHING

- If a specific aggregate exposure is required, grind concrete as normal to exposure aggregate
- Once aggregate is exposed, bring concrete to a 100 transitional profile. Ensure all deep surface scratches are removed with the 100 transitionals prior to applying **GLASS DENSIFIER**, surface scratches will transfer through if not removed
- Remove all dust, debris and contaminants from surface after 100 transitional profile is achieved
- After surface has been cleaned and dry, **GLASS DENSIFIER** may be applied
- Once **GLASS DENSIFIER** has been burnished to desired sheen, **GLASS GUARD** may be applied

NEW VCT

GLASS GUARD may be applied directly to new, untreated and unsealed VCT tile as a burnishable sealer.

- Ensure surface is free of dust, debris and contaminants
- Once surface is clean and dry, **GLASS GUARD** may be applied

EXISTING VCT

Strip all existing wax from existing VCT floors. Remove all dust, debris and contaminants from surface after stripping floors. Once floors are clean and dry after stripping, **GLASS GUARD** may be applied

SURFACE & AIR TEMPERATURE: 50 ºF - 95 ºF (10 ºC - 35 ºC)
EQUIPMENT: Microfiber pad, High Speed Propane Burnisher
STORAGE & HANDLING: Store in a cool, dry place <80 ºF. Always seal container after dispensing. Published shelf life assumes upright storage of factory-sealed containers in a dry place <80 ºF

APPLICATION

Before use, read Preparation, Hazard and Precautionary Statements. ALWAYS TEST using the equipment and procedures prior to starting the job

BEFORE USE

Mix **GLASS GUARD** well before use. Ensure surface is free of any dust, debris and other contaminants. Dust may settle back onto floor between surface preparation and application and may affect finish of **GLASS GUARD**. Once surface is clean and dry, **GLASS GUARD** may be applied

APPLICATION INSTRUCTIONS

For best results, apply over concrete which was polished with **GLASS DENSIFIER** or sealed with **TC-100**

1. Wet microfiber pad with **GLASS GUARD** prior to application
2. Pour enough **GLASS GUARD** onto floor to cover immediate application area
3. Spread evenly with damp microfiber pad. Maintain a thin, even coating and wet edge. Stop spreading once drying begins. For best results, use two people - one person pouring and one person spreading
4. Wait at least 1 hour for product to dry and be ready to burnish.
5. Burnish **GLASS GUARD** using the following method:

GLASS GUARD will become ready to burnish within 60-120 minutes depending on temperature

- After 60-120 minutes, use a propane powered burnisher without a dust control skirt on it, otherwise streaks will be left in the finish. The burnisher must be propane powered. Example of an appropriate burnisher is the Pioneer Eclipse PE420BU 28" Propane Burnisher
- Use a 3000 grit diamond pad to burnish the film
- Run RPMs at mid power setting. Walk at a medium speed pace of approximately 20 feet every 30 seconds, letting the burnisher heat up film
- Retrace burnished path, walking backwards. On the next path, overlap previous path by about 1/3rd, or 10 inches
- After burnishing with 3000 grit diamond pad, do a final burnish over the entire area with a white pad
- 1 crew of 2 people with 1 burnisher should be able to do approximately 2000 square feet per hour
- Concrete porosity varies, and there may be dull spots after burnishing. In areas where the concrete absorbs more product, dull areas can be spot treated
- When spot treating, wait until previously applied product is dry for at least 1 hour before spot treating to prevent damaging the existing film by applying too early. Follow normal application above instructions to burnish spot treated area

EQUIPMENT CLEAN UP

Clean tools with water after application

WARRANTIES AND DISCLAIMERS

TECNODRY LLC warrants that this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product is dependent upon the proper use and application of the product by the applicator. **TECNODRY LLC** has no role in the application of the finished polymer other than to manufacture and supply its components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of spray equipment and application of sol-gel materials. There are no warranties that extend beyond the description on the face of this instrument, except when provided in writing, directly by **TECNODRY LLC** and executed under seal by a company officer

TECHNICAL DATA (All values @ 77 ºF / 25 ºC)	US	Metric
Volatile organic compounds (ASTM D2369)	< 1 lb./gal	< 150 gm/ liter
Theoretical coverage	800-1000 ft² /gal @ 2 mils DFT	20-25 m²/liter @ 50 microns WFT
Specific Gravity of materials (ASTM D792)	8.5 lbs./gal	0.96 kg/ liter
Shelf life @ 77 ºF /25 ºC	12 months	12 months
Application Temperature	50 – 95 ºF	10 – 35 ºC

PROCESSING PROPERTIES (Under standard lab conditions)	
Touch Dry	10 - 10 minutes
Tack Time / Time Until Polishable	60 minutes
Burnishable Window	24 hours
Recoat interval	After 60 minutes
Foot Traffic	4 hours
To be exposed to vehicular traffic	48 hours
Properties and values are highly dependent on temperature. Variations are possible and expected.	