

TD.457 – TECHNICAL DATA: AUS-HD™ - Heavy Duty Single Component Urethane Sealer

Revised: 3/16/2023 Version: 1.4

Product Class: Clear polyurethane protective coating.

Description: AUS-HD™ is a 50% solids, high performance, single component, aromatic polyurethane protective coating that provides high abrasion and chemical resistance. Recommended for use only in well-ventilated areas. AUS-HD™ protects and reduces staining from materials such as oil, grease, food spills, and many chemicals by producing a low maintenance, abrasion resistant, protective film.

Typical Uses:

- Protective topcoat for:
 - Conventional concrete
 - Cementitious overlays
 - Resinous flooring
 - Polished concrete
 - Colored/stained concrete

Key Features:

- Available in high gloss and satin
- Resistant to most solvents, jet fuels, and Skydrol fluids
- Outstanding scratch resistance
- Fast return to service, 3 to 6 hours
- Varied levels of slip resistance can be achieved

Limitations:

- Must be applied in thin coats.
- AUS-HD™ must only be used on dry concrete that is well drained and is not subject to hydrostatic pressure. Alkali stains may form at edges, cracks, and expansion joints.
- Not recommended for concrete subject to continuous water submersion, chemical exposure, or high abrasion such as metal wheeled traffic.
- Highly flammable. Use only with adequate ventilation and proper safety equipment

Physical Properties

@73° F / 23° C, 7-day ambient cure at 50% R.H.

% Solids	50%	Viscosity	70-130 cps
Density	8 lbs./gal	VOC g/L	585
Color (Gardner Scale)	1	Abrasion CS-17 wheel	28 mg loss
Solvent system	Xylene	Flash Point	81° F / 27° C
Gloss @ 60° F / 16° C	95	Tensile Strength	5,000 psi
Impact resistance (direct)	160-inch lbs.	Impact resistance (reverse)	140-inch lbs.
Elongation (Instron)	85%		

- **Cure Schedule:** Area to be coated shall be between 60° - 90° F / 16° - 32° C and the relative humidity above 35% - 50%. NOTE: The higher the humidity the faster the cure. Product can be moisture sensitive.
- Surface Dry: 25 - 45 minutes depending on thickness of application.
- Hard Dry: 3 – 6 hours depending upon temperature, humidity, and thickness of application.
- Recoat window: After hard dry. After 24 hours the surface must be sanded and lightly solvent wiped before applying additional top coats.

Coverage: 200 to 250 sq. ft. per gallon. Coverage may vary depending on method of application and the texture and porosity of the surface. Contact an Elite Crete Systems Technical Representative for more details.

Application Equipment:

- Protective gear should be worn when using equipment and materials during preparation and installation.
- A solvent resistant, shed resistant, high-quality roller is recommended for most applications to apply an even coating.

Application:

- Cover surrounding areas and adjacent surfaces with masking to protect from over spray, spills, and tracking. The entire work area should be roped off.
- AUS-HD™ must be applied thinly and evenly while maintaining a wet edge and overlapping must be controlled. Must not be allowed to puddle or collect in joints, resulting in an improper cure.
- When applying to surfaces with little or no texture, BACK-TRACK™ 60S or AUS-V™ Aggregate can be added to increase slip resistance or to achieve a satin or matte finish. Sealed surfaces should be inspected to verify and approve the installation for safety including wet and dry slip resistance prior to opening to traffic.

Cautions:

- AUS-HD™ should only be used with adequate ventilation. **Keep away from heat, sparks and flame.** Vapors may cause flash fire. Do not smoke. Extinguish all flames and pilot lights and turn off stoves, heaters, electric motors, and other sources of ignition during use until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.
- Avoid contact with eyes and skin. **DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN.** Ensure fresh air entry during application. If you experience watering eyes, headaches, or dizziness or if air monitoring demonstrates vapor levels are above applicable limits, wear a properly fitted respirator (NIOSH/MSHA TC 23C approved) during and after application. Follow respirator manufacturer's directions for use.

*Refer to the Safety Data Sheet SDS.433 for additional information, clean up, and first aid.

Available Packaging:

- 1 gal. pail and 5 gal. pail

Suggested Storage:

- Store in a temperature and weather-controlled area between 65° F / 18°C and 85° F / 29° C.
- Caution: flammable
- Shelf Life: 1 year from date of manufacture.
- Open containers must use nitrogen blanket to prevent hardening.