ENDRUST® GP300

GP Black Lacquer — General Purpose Protective & Anti-Corrosion Coating

TECHNICAL DATA SHEET
TDS–GP300

FAST DRYING	READY TO USE	SINGLE PACK
Touch dry in 5 – 10 minutes	*No thinner required*	*Nitrocellulose lacquer — no mixing*

PRODUCT DESCRIPTION

ENDRUST® GP300 GP Black Lacquer is a fast-drying, ready-to-use, single-pack black protective coating for automotive, chassis and general-purpose metal applications.

GP300 forms a continuous protective barrier over properly prepared substrates, helping reduce exposure of the underlying metal to moisture, oxygen, salts and other environmental contaminants that contribute to corrosion.

In automotive rustproofing applications, GP300 is particularly useful where certain factory-applied underbody coatings or sound-deadening materials may be unsuitable for direct application of bituminous rustproofing coatings. It may be used as the primary protective coating on these areas, selectively in conjunction with ENDRUST® UB302B, or as an isolation coating prior to subsequent UB302B application where appropriate.

FEATURES & BENEFITS

- Fast drying — dust free in 2 – 3 minutes, touch dry in 5 – 10 minutes
- Ready to use as supplied — no thinner required
- Single-pack nitrocellulose lacquer — no mixing
- Forms a continuous black protective barrier film over properly prepared metal
- Suitable over clean, degreased bare metal and thoroughly sanded and degreased aged paintwork
- Can be recoated and sanded within 30 minutes
- Conventional spray application, or brush application on small areas
- Useful on underbody areas where factory coatings or sound deadeners may be unsuitable for bituminous coatings

APPLICATIONS / RECOMMENDED USES

- Vehicle chassis, underbodies and suitable underbody components
- Underbody areas with factory-applied coatings or sound-deadening materials that may be unsuitable for direct bituminous coating
- Isolation coat over compatibility-sensitive factory coatings before ENDRUST® UB302B
- Trailers, brackets, frames and other metal components
- General-purpose black protective coating for appropriate metal surfaces

GP300 IN ENDRUST UNDERBODY RUSTPROOFING

In Endrust application experience, bituminous rustproofing coatings such as ENDRUST® UB302B can react with some factory-applied underbody coatings and sound-deadening materials. When this happens the bituminous coating can remain soft and fail to dry properly. GP300 has proven very useful in these situations and, based on Endrust application experience, may be used in three ways:

USE	HOW GP300 IS APPLIED
1. Primary protective coating	Over substantial areas of an underbody where factory-applied coatings or sound-deadening materials make direct UB302B application unsuitable.
2. Selective use with UB302B	On compatibility-sensitive areas only, with UB302B applied to the remainder of the underbody.
3. Isolation coat before UB302B	Over the sensitive factory coating, with UB302B then applied over the GP300-treated area where appropriate. Allow GP300 to fully dry before applying UB302B. Under normal conditions, allow overnight drying. Drying time will vary with temperature, film build, humidity and workshop conditions.

Test first. Where the existing substrate or factory coating is unknown, apply GP300 to a small, inconspicuous area and check that it adheres and dries properly — and, where UB302B is to follow, that UB302B also dries properly over it — before full application. These uses reflect Endrust application experience; GP300 is not certified as compatible with all factory coatings or sound-deadening materials.

UB302B remains Endrust's preferred heavy-duty bituminous underbody rustproofing system where substrate compatibility allows. GP300 complements UB302B and solves a particular compatibility problem. Its lacquer film (20 – 25 µm total dry film build) is not a substitute for the much heavier UB302B system.

TECHNICAL SPECIFICATIONS

PROPERTY	VALUE	PROPERTY	VALUE
Product Type	Single-pack nitrocellulose lacquer	**Colour**	Black
Mixing Ratio	100 parts — thinner not required	**Spray Viscosity**	As supplied
Number of Coats	2 full, wet, even coats	**Total Dry Film Build**	20 – 25 µm
Flash-off Between Coats	5 – 10 minutes @ 25°C (dependent on film build)	**Recoat / Sanding**	Can be recoated and sanded within 30 minutes
Dust Free (air dry)	2 – 3 minutes	**Touch Dry**	5 – 10 minutes
Dry to Handle	20 minutes	**Hard Dry**	Overnight

PROPERTY	VALUE	PROPERTY	VALUE
Relative Density	0.9	**Flash Point**	6°C (closed cup)
Dangerous Goods	UN1263 PAINT, Class 3, PG II	**Clean-up**	Nitrocellulose lacquer reducer

Drying times will vary depending on temperature, flash-off between coats and number of coats used. Drying times quoted are average times at 20°C; film thickness, humidity and workshop temperature can all affect drying times.

SURFACE PREPARATION

GP300 can be applied over clean, degreased bare metal and thoroughly sanded and degreased aged paintwork.

- **Degrease —** before and after any sanding, thoroughly degrease the substrate with a wax and grease remover to remove all traces of dirt, oil, grease, silicone and wax.
- **Scale and surface rust —** treat with a metal conditioner and degreaser.
- **Heavy rust —** abrasive blast clean.
- **Factory underbody coatings and sound deadeners —** make sure the area is clean, dry and free of loose material, and test on a small inconspicuous area first.

APPLICATION

- **Ready to use —** GP300 is supplied ready for use; no thinner is required.
- **Coats —** apply 2 full, wet, even coats, allowing 5 – 10 minutes flash-off between coats @ 25°C (dependent on film build), for a total of 20 – 25 µm DFT.
- **Brush —** suitable for brush application on small areas.
- **Drying —** touch dry in 5 – 10 minutes; dry to handle in 20 minutes; hard dry overnight. Can be recoated and sanded within 30 minutes.
- **Under UB302B —** where UB302B is to be applied over GP300 as an isolation coat, allow GP300 to fully dry first; under normal conditions, allow overnight drying.
- **Conditions —** drying time varies with temperature, film build, humidity and workshop conditions.
- **Clean-up —** nitrocellulose lacquer reducer.

Spray Application Settings

METHOD	SETUP	PRESSURE
Conventional Suction Spray	Fluid tip 1.6 – 2.0 mm	30 – 36 psi (200 – 300 kPa)
Brush	Small areas only	N/A

SAFETY & HANDLING

- DANGER — HIGHLY FLAMMABLE LIQUID AND VAPOUR (flash point 6°C). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof equipment and non-sparking tools; take action to prevent static discharges.
- May damage fertility or the unborn child — obtain special instructions before use and avoid exposure during pregnancy. Causes serious eye damage and skin irritation — wear chemical splash goggles and face shield, chemical-resistant gloves and protective clothing.
- May cause respiratory irritation, drowsiness or dizziness, and damage to organs through prolonged or repeated exposure. Do not breathe vapour or mist. Use only with adequate ventilation — for spraying, where practicable use a spray booth designed and maintained in accordance with AS/NZS 4114. Wear an appropriate respirator when ventilation is inadequate.
- Dangerous Goods: UN1263 PAINT, Class 3, PG II. For professional use only. Refer to the Safety Data Sheet (SDS) for full health, safety and first aid information before use.

STORAGE

Store in the original container, tightly closed, in a segregated and approved, dry, cool and well-ventilated area, protected from direct sunlight and away from ignition sources, oxidising materials and food and drink. Do not store above 50°C. Store locked up. Opened containers must be carefully resealed and kept upright to prevent leakage.

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