ENDRUST® CHASSIS SHIELD

Professional Clear Rust & Corrosion Preventative

TECHNICAL DATA SHEET
TDS–CHCS

PRODUCT DESCRIPTION

ENDRUST® Chassis Shield is a professional-grade clear rust and corrosion preventative developed to protect exposed metal surfaces on vehicles, trailers, machinery and industrial equipment operating in harsh Australian conditions. Formulated from a blend of petroleum distillates, linseed oil, xylene and long-oil alkyd resin, it forms a durable protective barrier against moisture, road salts and other corrosive contaminants while preserving the natural appearance of the treated surface.

Unlike traditional cavity waxes that remain soft and continue creeping into enclosed sections, Chassis Shield is engineered for exposed external surfaces — chassis rails, cross members, suspension components, underbodies and trailers — where a cleaner, more durable protective coating is required. It dries to a firm, low-tack, low-gloss finish that resists dirt build-up and provides long-lasting corrosion protection. Australian Made.

FEATURES & BENEFITS

- Professional-grade clear rust and corrosion protection for exposed external surfaces
- Dries to a durable, low-tack, low-gloss protective film — not a decorative finish
- Repels moisture, road salts and environmental contaminants
- Resists dirt build-up and normal weather exposure
- Preserves the natural appearance of painted and bare metal surfaces
- Suitable for vehicles, trailers, machinery and industrial equipment
- Easy to apply by brush, roller or spray
- Australian Made

APPLICATIONS / RECOMMENDED USES

- Vehicle chassis and underbodies — chassis rails, cross members and floor pans
- Suspension components — control arms, steering gear, springs and axles
- Truck and trailer chassis
- Agricultural equipment operating in wet, muddy or coastal environments
- Mining and construction equipment
- Marine trailers and boat-launching equipment
- General industrial plant and equipment
- Temporary protection of fabricated steel during storage and transport

TECHNICAL SPECIFICATIONS

PROPERTY	VALUE	PROPERTY	VALUE
Colour	Amber-brown liquid; clear film when cured	**Coverage**	~25 m² per litre on clean, prepared surfaces
Finish	Low-gloss, low-tack protective film	**No. of Coats**	1–2 coats (second coat after 4–6 hours recommended)
Density	0.805 – 0.825 g/mL @ 15°C	**Touch Dry**	6–12 hours (temperature and humidity dependent)
Flash Point	63°C (combustible liquid)	**Hard Dry**	24 hours @ 25°C
Packaging	1 L, 20 L	**Thinning**	Not recommended
Application	Brush, roller, trigger, conventional or airless spray	**Clean-up**	Mineral turps
Product Code	CHCS	**Shelf Life**	Contact Endrust for details

PERFORMANCE

PERFORMANCE PROPERTY	RATING
Corrosion Resistance	Excellent — forms a durable barrier against moisture, road salts and contaminants
Weatherability	Good — resists normal weather exposure and rain
Abrasion Resistance	Good
Chemical Resistance	Moderate — not resistant to strong acids, alkalis or chlorinated solvents
Dirt Resistance	Good — low-tack finish resists dirt build-up

SURFACE PREPARATION

Chassis Shield is applied to clean, dry surfaces.

- **Clean —** remove heavy soiling with a detergent wash and fresh water rinse, and allow to dry completely. Surfaces must be free from loose rust, mud, dirt and grease.
- **Rusted areas —** remove loose rust. For heavily rusted surfaces, pre-treat with ENDRUST® RCP150 Rust Converter Primer & Sealer before applying Chassis Shield.
- **Masking —** mask sensors, wiring connectors, brakes and painted panels to prevent overspray.

APPLICATION

- **Mixing —** shake or stir well before use. Thinning is not recommended.
- **Method —** brush, roller, trigger, conventional or airless spray (see settings below).
- **Coverage —** apply an even coat across all target surfaces; keep coverage consistent and avoid flooding any one area. Approx. 25 m² per litre on clean, prepared surfaces.
- **Second coat —** a second coat after 4 – 6 hours is recommended for enhanced protection.
- **Curing —** touch dry in 6 – 12 hours (temperature and humidity dependent); hard dry in 24 hours @ 25°C. Allow to cure fully before pressure washing or heavy use.
- **Clean-up —** clean equipment and overspray immediately with mineral turps.

Spray Application Settings

METHOD	SETUP	PRESSURE
Conventional Air Spray	Fluid nozzle 1.3 – 1.7 mm; suitable for pressure pot or conventional gun	300 – 400 kPa
Airless Spray	30:1 pump ratio; tip ~432 micron (0.017 inch)	14 MPa (2,000 psi)
Trigger / Pressure Spray	Suitable for small areas and touch-up work	N/A

SAFETY & HANDLING

- DANGER — may be fatal if swallowed and enters airways. Do NOT induce vomiting; call the Poisons Information Centre on 13 11 26 immediately.
- COMBUSTIBLE LIQUID — flash point 63°C. Keep away from heat, sparks, open flames and other ignition sources. No smoking in work area.
- Use in a well-ventilated area. Avoid breathing vapours or spray mist — high concentrations may cause drowsiness or dizziness. Use respiratory protection when spraying.
- Wear solvent-resistant gloves (nitrile), safety goggles and protective clothing. Wash thoroughly with soap and water after handling.
- Contains linseed oil — rags and absorbents soaked with product can self-heat and ignite. Keep them wet or in a sealed metal container until disposal.
- Electrostatic charges may be generated during transfer — earth all equipment. Keep out of reach of children. Store locked up.
- Refer to the Safety Data Sheet (SDS) for full health, safety and first aid information prior to use.

STORAGE & SHELF LIFE

Store upright in a well-ventilated area away from sunlight, heat and ignition sources, as a combustible liquid in accordance with AS 1940. Do not store near strong oxidising agents. Keep containers tightly sealed. Dispose of empty containers in accordance with local authority requirements.

DISCLAIMER

This is not a specification. All information is given in good faith. Since conditions of use are beyond the control of the manufacturer, information contained herein is without warranty, expressed or implied. Final determination of suitability for any application, including safety in use, is the sole responsibility of the user. The manufacturer does not assume any liability in connection with the use of the product relative to coverage, performance, or injury. Endrust Australia reserves the right to change specifications without notice.