



225DS Duraseal

Pre-Catalysed Nitrocellulose Sealer – Interior Use

Product Overview

225DS Duraseal is a high-build, single-pack pre-catalysed nitrocellulose (NC) sealer designed for industrial interior furniture and general joinery applications. It is formulated to provide good sealing, sanding properties, and film build when applied to correctly prepared timber substrates under recommended conditions.

Duraseal is suitable for use in controlled industrial environments where fast turnaround times are required.

Typical Applications

Duraseal is commonly used as a sealer for interior applications including: - Industrial furniture - Cabinetry and joinery - Timber components - Particleboard and MDF

Product Characteristics

- **Product Type:** Pre-catalysed nitrocellulose sealer
 - **Finish:** Satin only
 - **Gloss Level:** 10–20% @ 60°
 - **Colours:** Clear, White, Black (tintable bases available upon request)
 - **Application Method:** Spray application recommended.
 - **Topcoat:** Suitable topcoats include single pack Nitrocellulose lacquers and precatylsed lacquer, acrylic lacquer and 2K acid catalysed lacquers. (pretest is always advisable)
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Key Performance Properties *(indicative only)*

- **Dry Time (25°C):**
 - Tack free: approximately 5–10 minutes
 - Recoat: approximately 1 hour
- **Thinning:** Up to 30% by volume using approved lacquer thinners or Inteflow slow reducer
- **Theoretical Coverage:** 15–20 m² per litre
- **Practical Coverage:** 6–8 m² per litre (spray application)
- **Volume Solids:** 20–30%
- **VOC Content:** <200 g/L

Actual performance will vary depending on substrate condition, application method, film build, and environmental conditions.

Substrate Suitability

Suitable for application over properly prepared: - Solid timber - MDF - Particleboard

All substrates must be clean, dry, and free from contaminants prior to coating.

Key Limitations

- **Interior use only**
- Not suitable for exterior exposure
- Limited water resistance (splash resistance only)
- Not recommended for wet areas
- Subject to yellowing typical of nitrocellulose systems
- May be used as a clear and pigmented low sheen topcoat.

For applications requiring chemical, moisture, or exterior resistance, alternative coating systems such as Two Component Polyurethanes, should be considered.

Application Instructions

The following application instructions are provided as general guidance for typical industrial use. Adjustments may be required depending on substrate condition, equipment, and environmental conditions.

Surface Preparation

1. Ensure all surfaces are clean, dry, and free from dust, oil, grease, wax, and other contaminants.
2. Sand timber substrates evenly to achieve a smooth, uniform surface.
3. MDF and particleboard edges should be properly prepared to minimise fibre raise and excessive absorption.
4. Remove all sanding residues prior to coating.

Application Equipment

- Conventional spray equipment
- HVLP spray equipment

Brush or roller application is not recommended except for minor touch-ups.

Mixing & Thinning

1. Stir product thoroughly before use.
2. Thin up to 30% by volume if required using approved lacquer thinners or Universal slow reducer as required for spray application.

Application

Clear Systems

1. Apply one uniform spray coat of Duraseal.
2. Allow approximately 1-2 hours drying time at 25°C
3. Lightly sand with 320–400 grit abrasive.
4. If additional sealing is required, allow a minimum of 2 hours drying time and repeat sanding and top coating process. (Maximum two coats of Duraseal)
5. Apply compatible topcoat at the desired gloss level.

Stained Systems

1. Apply stain and allow to dry in accordance with stain manufacturer's recommendations.
2. Apply one uniform spray coat of Duraseal and allow 1 -2 hour drying at 25°C.
4. Lightly sand with 320–400 grit abrasive.
5. Apply compatible topcoat system.

Note: Heavier film builds, reduced airflow, low temperatures, or high humidity may significantly extend drying and recoating times. Oven or force curing may be used where appropriate; allow substrates to cool to ambient temperature before recoating.

Storage & Handling

- Store in original, sealed containers
 - Keep in a cool, dry, well-ventilated area
 - Protect from extreme temperatures and ignition sources
 - Stir thoroughly before use
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Safety Information

Always refer to the current Safety Data Sheet (SDS) before handling or applying this product. Appropriate personal protective equipment must be used during application.

Important Notice

This Technical Data Sheet is provided as general guidance only and is based on information believed to be accurate at the time of issue. Product performance may vary depending on substrate condition, application method, environmental factors, and operator technique.

No guarantee or warranty of performance is implied beyond that required under applicable law. Users are responsible for determining the suitability of this product for their specific application. Always conduct appropriate testing prior to full-scale use.

Intec Coatings Pty Ltd

Email: sales@inteccoatings.com.au

Phone: (03) 9357 9510