

937-010 FD Polyurethane Hardener

PRODUCT DESCRIPTION & USES

937-010 FD Polyurethane Hardener is the hardener for **937 FD Polyurethane**, a cost effective modified 2K Fatty Acid Polyester Polyurethane especially designed for Industrial use to give a hard durable water and chemical resistant finish to metal and timber substrates. It is ideal for use on furniture intended for high service areas.

PRODUCT FEATURES

- Fast setup and dry.
- Hard wearing.
- Exceptional durability.
- **937 FD Polyurethane** is available in Clear, White and Tinted in a four gloss levels.
- Made in New Zealand for New Zealand conditions.

TECHNICAL DATA

Gloss Level	N/A for 937-010 FD Polyurethane Hardener .
Sealer / Primer	Clear on Timber: 772 Portco 2K Fast Dry Sealer Coloured on Timber or Metal: 875 AE12 Etch Primer
Wash Up	2K Magic Brush Wash (Do not use for thinning)
Colours	N/A for 937-010 FD Polyurethane Hardener .
Pack Size	500mL, 1L
Storage Temperature	5°C - 50°C
Shelf Life	Minimum 2 years. 937-010 FD Polyurethane Hardener is water sensitive and balance of contents may gel after container is opened and only part used.
Toxicity	This paint contains polymeric isocyanates when mixed. Provide adequate ventilation during use. Breathing the vapour is dangerous. Avoid breathing of fumes. Where applied by spray, use suitable air-fed respiratory equipment/hood at all times.
VOC content	Unmixed: 270g/L. Mixed: 634g/L for 937-100 FD Polyurethane Gloss White , 664g/L for 937-003 FD Polyurethane 30% Gloss Clear per EC-07-09 and APAS definition of Volatile Organic Compound. Results may vary slightly for the other colours.
Mixing Ratio	8 parts by volume Base to 1 part by volume 937-010 FD Polyurethane Hardener
Pot Life	5 hours
Volume Solids	20% for White, 12% for Clear.
Wet Film Thickness	Approximately 83µ per coat
Dry Film Thickness	Approximately 17µ per coat for White, 10µ per coat for Clear.
Coverage	Approximately 12 m ² /L.

SUBSTRATE PREPARATION INSTRUCTIONS

Surfaces must be clean, dry and free from all loose material. Sand all surfaces to a dull finish and remove sanding dust.

New Timber: Seal with **772 Portco FD Sealer**. Sand, remove sanding dust and apply two coats of **937 FD Polyurethane**.

New Metal: Prime with **875 AE12 Etch Primer**. Finish with two coats of **937 FD Polyurethane**.

Previously painted surfaces: Remove or treat any corroded metal. Ensure existing paint is sound and compatible with **937 FD Polyurethane**. Clean and apply 2 coats of **937 FD Polyurethane**.

RECOMMENDED APPLICATION METHODS AND TECHNIQUES

Add 1 part by volume of **937-010 FD Polyurethane Hardener** to 8 parts by volume of **937 FD Polyurethane**.

Apply by spray in full, even coats.

Minimum Surface Temperature: 5°C

Maximum Relative Humidity: 75%

Temperature Range: 5°C - 35°C

Suitable Application Methods: Spray

Thinners: Supplied ready for use. **09.04 Spraying Thinners** can be used if required

Cleaning Solvent: **002.034 2K Magic Brush Wash – NOTE:** do not use for thinning

Max. Volume Thinners: 5%

Date Issued: 14 February 2018; Reason for Issue: Separate TDS for Hardener; Version: 1.0; Replaces Version: N/A; Page 1 of 2

NOTE: The information concerning the use and application of this product is intended for use by professional specifiers and applicators, is given in good faith and is believed to be correct at the date of issue. Protective Paints Ltd reserves the right to alter the product or specification without notice. The user should check the date of issue, and if more than 24 months have elapsed, should verify with our nearest sales office that the information is still current. Because we cannot control the way these products may be used, or the conditions they may be exposed to, we can give no express guarantees in respect of the performance of this product. However certain guarantees may be implied by law.



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Conventional Spray: Fluid nozzle 1.5–2.0mm
Pressure to the gun 30–50psi

Airless Spray: Fluid nozzle 9–13thou
Pump ratio 12 – 20:1
Pump pressure 1000–1500 psi

Note: This information is issued as a guide only. For further details regarding your specific operations consult your equipment manufacturer

DRYING CHARACTERISTICS

All figures quoted are at 20°C and 65% relative humidity.

Drying will take longer at lower temperatures and/or at higher relative humidity and “blooming” may occur.

Do not paint when temperature of surface is below 5°C, above 35°C or when humidity is very high.

Touch Dry; 1 hour
Recoat: 4 hours
Full Cure: 6 hours

HEALTH & SAFETY

Flammable. Avoid contact with heat and naked flame.

Avoid contact with skin and eyes. Use gloves, mask and goggles during application. Provide adequate ventilation when using in confined spaces.

The Hardener contains polymeric isocyanates. Provide adequate ventilation during use.

Breathing the vapour is dangerous. Avoid breathing of fumes. Where applied by spray, use suitable air-fed respiratory equipment/hood at all times.

This product is intended for use in industrial situations by professional applicators in accordance with the advice given on this sheet. All work involving the use and application of this product should be carried out in compliance with all relevant Health, Safety & Environmental standards and regulations and must not be used without reference to the Material Safety Data Sheet (MSDS).

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