

MIROTONE

Leading the way in coating systems since 1938

Product Specification Sheet

MIROSTAIN 2001 NGR STAIN

Description

A non grain raising dye stain designed to be applied directly to timber in order to colour the substrate before applying subsequent **MIROCAT**, **MIROBILD** or **MIROTHANE** clear wood coating product ranges. MIROSTAIN 2001 NGR Stain is available in both "Concentrate" and "Ready For Use" colour strengths. For interior use only.

Typical Applications

- Timber and Timber Veneer Fixtures and Furniture.
- Dining and Bedroom Suites.
- Hotel and Restaurant Furniture.
- Interior Doors.
- Kitchens.
- Wall Units, Shelving and Ceiling Panels.
- etc.

Refer to the **Mirotone Coating Quality Promise Brochure** for typical service function and end use applications of the **MIROCAT**, **MIROBILD** and **MIROTHANE** clear wood coating product ranges.

Colours

Available in a wide range of wood colours including

"Concentrates" Black, Blaze Red, Blaze Yellow, Blue, Green, Orange, Mahogany, Brown Mahogany, Medium Mahogany, Oak, Brown Oak, Dark Oak, Earth, Rimu, Rosewood, Teak, Traditional, Walnut, Warm Walnut, Maple Glow.

"Ready For Use" All of the above plus, Amber Glow, Golden Oak, Honey Glow, Dark Walnut, Cedar, Light Oak.

Surface Preparation

1. Fill all timber defects with "Timbermate" wood filler. (eg cracks, holes, etc)
2. Sand timber substrates to a smooth even finish using 180 grit 3M Production Frecut Paper. Sand MDF boards to a smooth even finish using 240 - 320 grit 3M Production Frecut Paper.
3. Remove all sanding dust using air guns and tack rags.
4. Ensure substrate is free from dust, grease, dirt, plus all other contaminants.
5. Ensure the moisture content of the timber is less than 15% immediately prior to commencing coating operations.

Technical Specifications



Thinning

Not normally required as MIROSTAIN 2001 NGR Stain is supplied ready for use. If required stain can be diluted with the addition of MIROSOL 1294 Thinner, however the MIROSTAIN 2001 NGR Stain colour becomes lighter.



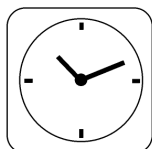
Application

By spray in properly constructed and functioning spray booths. Wipe off all excess MIROSTAIN 2001 NGR Stain after application, with a clean lint free rag.



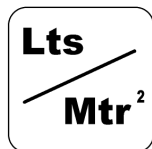
Application

By hand in properly constructed and functioning spray booths. Rub on with clean lint free rag and wipe off all excess MIROSTAIN 2001 NGR Stain with a separate clean lint free rag.



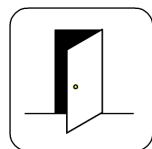
Drying Times @ 20° C and 70% humidity

Overcoating Time 15 – 20 minutes



Coverage

6 square metres per litre when thinned correctly and applied to a properly prepared substrate. Less on porous, open or end grain timber.



Storage

In an approved dangerous goods store.



Shelf Life

12 months in tightly sealed containers.

Application Equipment Clean Up

Mirosol 1215 Ultra Fast Thinner.



Toned Topcoats

MIROSTAIN 2001 NGR Stain can be added up to 10% by volume to a clear topcoat for toning or shading operations. (not for use in MIROTHANE polyurethane's) Refer to the relevant topcoat Product Specification Sheet for application information.

Approved Coating System

	Stain	Sealer	1st Topcoat	2nd Topcoat
MIROCAT Clear Finishes	MIROSTAIN 2001 NGR Stain	MIROCAT PC 3242 Sanding Sealer	Either MIROCAT PC 3200 or PC 3210 or PC 3220 Clear Lacquers	Either MIROCAT PC 3200 or PC 3210 or PC 3220 Clear Lacquers
	Stain	Sealer	1st Topcoat	2nd Topcoat
MIROBILD Clear Finishes	MIROSTAIN 2001 NGR Stain	MIROBILD AC 3631 Sealer	Either MIROBILD AC 3633 or AC 3636 Clear Topcoats	Either MIROBILD AC 3633 or AC 3636 Clear Topcoats
	Stain	Sealer	1st Topcoat	2nd Topcoat
MIROTHANE Clear Finishes	MIROSTAIN 2001 NGR Stain	Either MIROTHANE PU 5535 or PU 5545 Sealer	MIROTHANE PU 5555 Topcoat	MIROTHANE PU 5555 Topcoat

Apply all coatings as per instructions on the relevant Product Specification Sheets.

Caution

1. MIROSTAIN 2001 NGR Stain is designed to be applied to bare timber. Application between coats of sealer and topcoats or between topcoat and topcoat may cause delamination in the coating system.
2. Do not overcoat before the stated drying time period has elapsed even if the stain is dry.
3. Clear coatings whilst imparting partial protection to wood against the effects of water and chemicals, **do not protect** wood from the ageing / discolouration effects of temperature and sunlight. (refer to **Technical Bulletin NZ-002**)
4. Certain species of timber veneer (for example Tawa, Blackwood, European Beech, Maple, etc) may discolour to a reddish or green hue when over-coated with a Mirotone clear coating system due to the reaction between the coating, the timber veneer and the timber veneer adhesive. (refer to **Technical Bulletin NZ-002**)
5. Do **not** apply coatings if ambient or substrate temperatures are below 10°C. Under adverse climatic conditions full cure times may be extended.

Health & Safety

Ensure adequate ventilation during use. Dispose of contaminated rags used in the application of MIROSTAIN 2001 NGR Stain in a safe manner. Material Safety Data Sheet available on request.

Treatment Specification

1. Prepare substrate as required.
2. Apply an even, wet coat of MIROSTAIN 2001 NGR Stain by spray or hand application.
3. Wipe off excess MIROSTAIN 2001 Stain with a clean, lint free rag. Follow the grain of the timber for best results.
4. Change to a clean rag frequently to prevent over-saturation of the rag.
5. Allow MIROSTAIN 2001 NGR Stain to fully dry. Do not sand.
6. Thin and strain the selected sealer and apply one coat. (apply sealer as per instructions on the relevant Product Specification Sheet)
7. Sand sealer coat to a smooth even finish with 400 grit 3M Production Frecut Paper and remove all sanding dust using air guns and tack rags. Taking care not to sand through the sealer coat and thus remove the stain.
8. Thin and strain selected clear topcoats and apply two coats. (apply topcoats as per instructions on the relevant Product Specification Sheet)

Packaging

1, 4 and 20 litre packs

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This Product Specification Sheet is based on information in Mirotone's possession at the "Date of Issue". Amendments to this Product Specification Sheet can be made at any time. Users should check that this Product Specification Sheet is still current before applying coatings as per the information contained within.

The information contained and the recommendations made on this Product Specification Sheet are based upon data appraised in our own laboratories and on our own research and that of others. Due to possible differences in application methods and interpretation of results, users of these Mirotone products must satisfy themselves that the end result obtained meets their requirements. Mirotone can only control the quality and composition of their own materials and have no control over the quality or composition of other manufacturers coating materials, nor of the substrate used. Therefore users must satisfy themselves that the performance of the total coating system employed meets their requirements. Mirotone supplies their product only under these conditions. For further information refer to **Technical Bulletin NZ-001**.