

MIROPOL PE 5111 White Polyester Undercoat

MIROPOL PE 5111 is a premium, high build, white polyester undercoat is a high build, white polyester undercoat for MDF and particleboard. When top coated with one of Mirotone's full gloss polyurethane topcoats, it provides the ideal base to achieve the "wet look" European finish.

Product Advantages

- Excellent build and excellent flow and levelling results in high distinction of image (DOI) when top coated with a full gloss polyurethane topcoat.
- Superior vertical hold up makes it easy to apply high film weights without sags and runs.
- Excellent opacity, especially over sharp edges.
- Slight sheen allows operators to easily see where they have sanded.
- May be ordered as a two-pack with the cobalt pre added.

Typical Applications

Interior use only for example interior doors, kitchen & bathroom cabinets, commercial joinery and wall panelling and domestic furniture.

Product Properties

Build:	Excellent
Sandability:	Excellent
Vertical Hold Up:	Excellent
Solvent Resistance:	Very Good
Water Resistance:	Very Good
Levelling & Flow:	Excellent
Sink Back:	Minimal

Typical Properties

Colour:	White
Specific Gravity:	1.43

Coverage: 3 m² per litre at 300 micron wet film build. This is dependent on the application equipment / gun set up and the article being coated.

Mixing Ratio:

Mix by volume, 1 Litre 5111 Part A + 20ml 5202 Accelerator + 10ml peroxide (MEKP) Catalyst (100:2:1)

Always mix 5202 Accelerator into the 5111 Part A base before adding the peroxide (MEKP Catalyst). Mixing the Accelerator and the Peroxide Hardener together may cause an explosion or fire.

Pot Life: Approximately 45 minutes at 25°C.

Pot life varies significantly with ambient temperature and the quantity mixed. Pot life is longer at lower temperatures and shorter at higher temperatures. The larger the quantity mixed, the shorter the pot life will

be. Only mix the quantity required for the job.

Refer to the MIROPOL PE Polyester Product Information Guide for mixing ratios to extend pot life.

Thinning: 30-40% with MIROSOL 1208 (Fast), 1234 (Medium) or 1224 (Slow) Thinner

Application Viscosity: 30 seconds BS4 Flow Cup at 25°C.

Wet Film Thickness (WFT): 200-300 microns (total)

Do not exceed the recommended WFT on routed MDF panels as cracking may occur.

Application Methods:

Suction Gun:	Use 1.5 to 2mm (59-79 thou) orifice with 350-400kpa (50-55 psi).
Pressure Pot:	Use 1.5 to 2mm (59-79 thou) orifice with pressure pot air-cap. Gun pressure 350-400kpa (50-55 psi) and a pot pressure of 45kpa (6 psi) max.
Airless Spray:	Use 0.23 to 0.33mm (9-13 thou) orifice, 15cm fan (dependent on job) with regulated pump pressure of 350-400kpa (50-55 psi).
Air Mix Guns:	Settings similar to airless spray with the air-assisted regulator pressure at 70-90kpa (10-15psi).

Drying:	Dust Free:	45-60 minutes
	Touch Dry:	90 minutes
	Sanding:	7 hours (depending upon temperature)
	Topcoat:	Within 24 hours of sanding
	Block Stacking:	48 hours

Temperatures below 15°C will retard the curing reaction of the product. Drying time is also affected by wet film thickness, the lower the WFT the slower the rate of reaction and the longer the dry time.

Application Equipment Clean Up: Clean all equipment using MIROSOL 1208 or 1234 Thinner

Shelf Life: MIROPOL PE 5111 Part A – 36 months
MIROPOL PE 5202 Cobalt – 12 months
MEKP Catalyst – 12 months

MIROPOL PE 5111 with PE 5202 Pre-Added – 3 months

Packaging: MIROPOL PE 5111 Part A - 25 kg (17.49 litres)
MIROPOL PE 5202 Cobalt – 1 litre
MEKP Catalyst – 0.5 litre

Recommended Topcoats: MIROTHANE PU 5605 Polyurethane Topcoat
MIROTHANE PU 5650 Polyurethane Topcoat
MIROTHANE PU 5610 Polyurethane Topcoat
MIROTHANE PU 5673 Polyurethane Topcoat

Refer to the MIROPOL PE Polyester Product Information Guide for more information.

Health & Safety

Before handling, refer to the Material Safety Data Sheet for health and safety information. Ensure that all personnel using this product have read and understood this data sheet and the associated MSDS and packaging label before using this product.

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