Technical datasheet

WOOD KEEPER RAINBOW PLUS PREMIUM PU

Product description

An economical, high-performance two-component PU coating system developed specifically for MDF and wood veneer applications. The product range includes Clear Sealer, Clear Gloss, Clear Matt, Clear Satin, 2K Epoxy Metal Primer, White Primer Surfacer, White Gloss, and White Satin, catering to a wide range of coating and finishing requirements.

Performance benefits:

1. **Excellent Clarity & Gloss: Delivers a high-clarity, wet-look gloss finish and a smooth, silky matt finish.**
2. **Strong Adhesion: Excellent adhesion to substrates and compatible undercoats.**
3. **Optimum Flexibility: Ensures balanced film flexibility and integrity.**
4. **Low Odour: Low odour compared to conventional products in its category.**
5. **Heavy-Metal Free: No added lead, mercury, or chromium.**

Recommended use

Applicable for finishing of furniture's, wooden crafts, MDF boards, bamboo board, veneers, plywood etc.

Technical Data (Typical Indicative values)

	Clear Sealer	**Clear Gloss Base**	**Clear matt**	**Clear satin Base**	**Primer Surfacer Base**	**White Gloss Base**	**White Satin Base**	**2K Epoxy Metal Primer Base**
Viscosity, In Sec, FCB4/Cup/Poise	120±10	65 ± 10	40 ± 10	55± 10	20±10Poise	60 ± 10	180 ± 10	70 ± 10
Specific Gravity, gm/Lt	0.99 ±0.03	1.00 ±0.03	1.02 ±0.03	1.02 ± 0.03	1.53±0.05	1.23 ±0.03	1.28 ± 0.03	1.36 ± 0.03
Coverage Sq. meter/ltr/Coat at 30 Micron DFT	12-13	12-13	10-11	10-11	9-10	12-13	12-13	12-13

Issue date: 06/08/2026

Gloss values, at 20^0	Not applicable	Min 85	Not applicable	Not applicable	Not applicable	Min 85	Not applicable	Not applicable
Gloss values, at 60^0	Not applicable	Not applicable	10 ± 5	30 ± 10	Not applicable	Not applicable	40 ± 10	Not applicable
Surface dry	< 1 hr	< 1 hr	< 1 hr	< 2 hr	< 1 hr	< 3 hr	< 2 hr	< 3 hr
Tack Free Time	Overnight	Overnight	Overnight	Overnight	Overnight	Overnight	Overnight	Overnight
Hard Drying	Overnight	Overnight	Overnight	Overnight	Overnight	Overnight	Overnight	Overnight
Shelf Life for Basesin month	24	24	24	24	24	24	24	24

Shelf Life conditions: Products should originally pack in tightly closed condition at a ventilated dry area maintained at 25^0C.

Product Description & Product code

Product code	Product Description	Base: Hardener	Recommended % of thinner
345991	Imperia Epoxy Block Primer Base	1:1	NA
345KB3	Imperia Epoxy Block Primer Hardener		

Product code	Product Description	Base: Hardener	Recommended% of Thinner
0DA001	Rainbow Plus Hi Build Clear Sealer Base	4:1	30-35%
0DAKB3	Rainbow Plus Hi Build Clear Sealer Hardener		
0DB001	Rainbow Plus Hi Build Clear Gloss Base	4:1	30-35%
0DBKB3	Rainbow Plus Hi Build Clear Gloss Hardener		
00V001	Rainbow Plus Clear Satin Base	4:1	30-35%
00VKB3	Rainbow Plus Clear Satin Hardener		
05X001	Rainbow Plus Clear Matt Base	4:1	30-35%
05XKB3	Rainbow Plus Clear Matt Hardener		
0DF001	Rainbow Plus Hi Build Primer Surfacer Base	9:1	30-35%
0DFKB3	Rainbow Plus Hi Build Primer Surfacer Hardener		
13P001	Rainbow Plus 2K Metal Primer Base	4:1	30-35%
13PKB3	Rainbow Plus 2K Metal Primer Hardener		

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0DC001	Rainbow Plus Hi Build White Gloss Base	4:1	30-35%
0DCKB3	Rainbow Plus Hi Build White Gloss Hardener		
00X001	Rainbow Plus White Satin Base	4:1	30-35%
00XKB3	Rainbow Plus White Satin Hardener		

Recommended Application

Sand the seasoned wooden surface using emery paper (180) along the grains. Repeat the sanding smoothly with finer grade of emery paper (220/320) and then wipe off the loose dust particles.
Apply the coatings as follows:

Product	Application method	Thinner	Application Viscosity (Secs)	Recoating Period (hrs)
345991+345KB3	Spray/Cloth Application	NA	14-17 Secs	1-1.5 Hrs.(should not exceed 24 hrs.)
Do a light sanding with emery paper 400 if it exceeds 24 hours after application				

Base Coat

Product	Application method	Thinner	No of coats	Application Viscosity (Secs)	Recoating Period (hrs)
0DA001+0DAKB3(Clear Sealer)	Spray application	T31/T12	2	18-22secs	Overnight (should not exceed 72 hrs)
0DF001+0DFKB3(Primer Surfacer)	Spray application	T31/T12	2	18-22secs	Overnight (should not exceed 72 hrs)
13P001+13PKB3(2K Metal Primer)	Spray application	T31/T12	2	18-22secs	Overnight (should not exceed 72 hrs)
Sand 1st coat with emery paper (320 or 400) and wipe off the dust particles followed by 2nd coat with emery paper (400) and wipe off the dust particles (Apply more coats depending on finish requirement and clean before top coat application)					

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Top coat

Glossy Finish

Product	Application method	Thinner	No of coats	Application Viscosity (Secs)	Recoating Period (hrs)
0DB001+0DBKB3 (Clear Gloss)	Spray application	T31/T80	2	18-22secs	Overnight (should not exceed 72 hrs)
0DC001+0DCKB3 (White Gloss)	Spray application	T31/T80	2	18-22secs	Overnight (should not exceed 72 hrs)
Sand 1st coat with emery paper (600 or 800) and wipe off the dust particles followed by application of 2nd coat					

Matt/Satin Finish

Product	Application method	Thinner	No of coats	Application Viscosity (Secs)	Recoating Period (hrs)
05X001+05XKB3 (Clear Matt)	Spray application	T31/T12	2	18-22secs	Overnight (should not exceed 72 hrs)
00V001+00VKB3 (Clear Satin)	Spray application	T31/T12	2	18-22secs	Overnight (should not exceed 72 hrs)
00X001+00XKB3 (White Satin)	Spray application	T31/T12	2	18-22secs	Overnight (should not exceed 72 hrs)
Sand 1st coat with emery paper (600 or 800) and wipe off the dust particles followed by application of 2nd coat					

Post Application instructions

The base and hardener should be preserved with tightly closed respective containers and preferably be consumed within one week of its use. During application, masking of the adjoining area to be done to avoid spray dust. For removing stains and spray dust on adjoining metal and tile surfaces, PU thinner can be used.

Pack Sizes & Shade Range

Rainbow Plus hi build clear sealer combo pack 4:1 (0DA/991) – 1 L, 4 L and 20L

Rainbow Plus hi build clear gloss combo pack 4:1 (0DB/991) – 1 L, 4 L and 20L.

Rainbow Plus clear satin combo pack 4:1 (00V/991) – 1 L, 4 L and 20L.

Rainbow Plus clear Matt combo pack 4:1 (05X/991) – 1 L, 4 L and 20L.

Rainbow Plus hi build primer surfacer combo pack 9:1 (0DF/991) – 1 L, 4 L and 20L.

Rainbow Plus hi build white gloss combo pack 4:1 (0DC/991) – 1 L, 4 L and 20L.

Rainbow Plus white satin combo pack 4:1 (00X/991) – 1 L, 4 L and 20L.

Rainbow Plus Epoxy Metal Primer combo pack 4:1 (13P/991) – 1 L, 4 L .

More than 13,000 solid colour shades across various fan decks are available in the Rainbow Base Tinting System

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Storage & Handling

1.	Storage	Store in cool and dry place. Keep away from source of ignition. Keep container tightly closed, out of children reach and away from food.
2.	Disposal	Do not pour left over product down the drain or any water course. Dispose in accordance with local regulation.
3.	Flash Point for Bases	Above -4^{0}C (Abel Closed Cup)
4.	Flash Point for Hardener	Above 4^{0}C (Abel Closed Cup)

SAFETYINFORMATION

1.	Fire hazard Class	Flammable
2.	Safety Precaution	Kindly refer to the MSDS for Rainbow. Ensure good ventilation during storage, application & drying of product. Wear protective clothes & gloves. Smoking is prohibited while painting. A suitable dust nose pad should be worn when rubbing the surface. Avoid inhaling the vapour. Wear eye protector during application. In case of contact with eyes, rinse immediately with plenty of water.
DISCLAMER		The information contained within this data sheet is based on information believed to be reliable at the time of its preparation. The company will not be liable for loss or damage howsoever caused including liability for negligence, which may be suffered by the user and the data contained herein. No guarantee of results is implied since conditions of use are beyond our control. Products undergo continuous improvement. The technical data in this catalogue are therefore subject to change.

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