### **TECHNICAL DATA**



### **PU LACQUER PUL-91**

No. TD : P-439 Revision : 00

Effective Date: 18/11/2013

PU LACQUER PUL-91, Non-yellowing 2K PU laccquer solvent based designed for wooden interior furniture and housing component

#### **FEATURES**

- > Excellent weathering resistant.
- > Hard but flexible.
- Good leveling and smooth surface.
- > Fast dry and easy to use
- > House-hold chemical resistant.
- > Can be buffing (if necessary).
- > Formaldehyde free.
- > Imported hardener from Bayer®- Germany with free-isocyanate content less than 0.5%.

#### PRODUCT SPECIFICATION

Type : 2K PU alkyd polyol

Appearance : Clear

A Component: PUL-91	Appearance	Gloss Level (%)	Solid Content (% NV, w/w)	Viscosity (sec/Din cup 4, 30℃)	Specific Gravity (g/cc)
Color Gloss	Clear	>90	33 ± 1	25 ± 5	0.96 ± 0.02
Semi Gloss	Milky	50 - 60	37 ± 1	60 ± 5	0.98 ± 0.02
Color Dof	Clear	10 - 20	37 ± 1	60 ± 5	1.00 ± 0.02
B Component: Hardener PUH-91	Clear	-	55 ± 1	52 ± 5 (Din cup 2)	0.95 ± 0.02

**B** Component **A Component** 

Flash Point : 27°C 26°C

: 0.8 L in steel can **Packing** 0.2 L in steel can 4 L in steel gallon 1 L in steel can

> 20 L in steel pail 5 L in steel gallon

#### **APPLICATION**

Application condition : 25 - 30°C, 40 - 60% RH

Application method : Spray

: Wood / PUSS-91 Substrate / undercoat

Mixing ratio by weight : A:B:Thinner = 4:1:2-3 Thinner : THINNER POLYURETHANE MD

Application viscosity (NK 2, 30℃) : 9 - 10 sec by spray Pot life of mixture : 6 - 8 hours at 30°C

: 100 - 120 g/m<sup>2</sup> of mixture per coat Coating Amount (wet)

: 3.8 m<sup>2</sup>/L-set by spray at ca 100 g/m<sup>2</sup> (efficiency 40%) Theoretical coverage

# **TECHNICAL DATA**



#### **FILM PROPERTIES**

Drying time (min. 30°C)

Dust Free : 5 - 10 minutes Tack Free : 60 - 80 minutes Hard Drv : Overnight

Note: 1. Apply on black unsaturated polyester panel at CA = 100 g/m<sup>2</sup>

: Wet on dry = after 4 - 6 hours Re-coating time

Stacking time : After 16 - 17 hours Packing time : After 72 hours Adhesion on PUSS-91 : GT = 0 - 1

#### **OTHERS**

Shelf life : Five years both of A component and B component if

stored in cool and dry condition and in original sealed can.

: Avoid B component from heat and humidity. Store in cool Storage and handling

storage and in good ventilation room.

#### SURFACE PREPARATION

> If necessary use IMPRA wood filler to fill wood pores. Sand all wood surfaces with sand paper no. 240. Remove all sanding dust.

- Use IMPRA wood stain for staining the wood.
- Use PU Sanding Sealer PUSS-91 as base coat.

#### APPLICATION INFORMATION

- > Apply PU Sanding Sealer PUSS-91 (mixing ratio A:B:Thinner = 4:1:2-3 by volume) with coating amount 100 - 120 g/m<sup>2</sup> by spray. Let it dry for 2-3 hours. Sand with sand paper no. 400. Repeat process for the second coat or third coat.
- > Apply PU Lacquer PUL-91 (mixing ratio A:B:Thinner = 4:1:2-3 by volume) with coating amount 100 -120 g/m<sup>2</sup> by spray. Let it dry for overnight.
- > Topcoat available in clear gloss (90 sheen), semi gloss (55 sheen) and clear dof (15 sheen).
- > Stir well A component before use.
- > A and B component and Thinner should be mixed properly and stir throughly with agitator.
- Close cap of B component tightly after use.
- Good ventilation in working area is suggested.
- > Keep out of reach of children.

#### RECOMMENDED COATING SYSTEM

No.	APPLICATION STEP	PRODUCT	RECOMMENDED COATING
1	Stain	e.g. WS 162 B COLOR	1 x
2	Base Coat	PUSS-91	1 - 2 x
3	Top Coat	PUL-91	1 x

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#### **SAFETY PRECAUTION**

This product contains aromatic solvent. It does not contain formaldehyde or heavy metals. Avoid contact with the skin and eyes. Wear suitable protective clothing such as working suit, goggles, masks, and safety gloves. Use barrier cream.

This product is flammable. Keep away from fire and direct sunlight. Use only explosion proof equipment. Do not breathe the vapor of spray. Avoid contact with strong oxidizing agents and water.

For more information, please refer to our safety data sheet.

#### FIRST AID

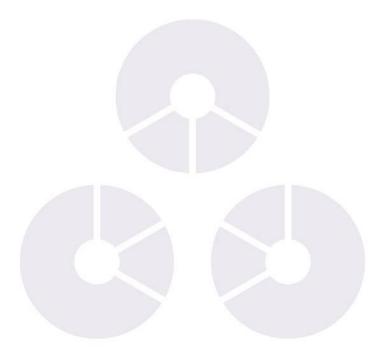
> Eye contact : Rinse immediately with plenty of water for at least 15 minutes; seek

medical advice.

Skin contact: Wash with soap and water. If irritation occurs, seek medical advice.

Ingestion : Provide symptomatic treatment and seek medical advice.

> Inhalation : Remove person to fresh air. Keep patient rested and give artificial respiration.



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