



TECHNICAL DATA SHEET

Dök.No: ÜRT-TDS-260
Yay.Tar.: 07.09.2022
Rev. No : REVİZYON-05
Rev.Tar. :09.07.2024
Sayfa : 1/1

PRODUCT	W-IMPACT PU 2+1 VARNISH												
PRODUCT CODE	MIXING RATIO (by weight)	MIXING RATIO (by volume)	1st COMPONENT	2nd COMPONENT	GLOSS (°60) *								
SUPER MATTE	2+1	2+1	275-0634	259-1037	4 - 7								
MATTE	2+1	2+1	275-1134	259-1037	8 - 15								
S. SILK MATTE	2+1	2+1	275-3634	259-1037	20 - 30								
S. GLOSS	2+1	2+1	275-8134	259-1037	50 - 60 **								
<i>*:The gloss value may vary depending on the type of wood applied. **: Just for glossy type, higher gloss (i.e 70 gloss) can be achieved by applying an extra coat of 275-8134.</i>													
DESCRIPTION	It is a solvent-based, two-component, polyurethane hybrid resin-based, high-strength varnish system with different gloss/matt degrees, developed for indoor wooden surfaces.												
APPLICATION FIELDS	Interior office and home furniture (including kitchen and bathroom), doors, windows and other wooden surfaces												
PROPERTIES	W-IMPACT is a transparent varnish system that adheres very well to wooden surfaces, is flexible, has high scratch and chemical resistance, is waterproof and provides excellent durability. In addition, it ensures that wood and furniture are used for many years without any physical, chemical and mechanical deformations such as whitening, yellowing, breaking, peeling, staining, by using the same varnish in the entire cycle, starting from the first layer, which does not require filler/sealer varnish.												
DILUTION RATIO	W-IMPACT Varnishes which prepared according to mixing ratios given above are diluted %30 as weight by Kubilay PU Thinner. <table><thead><tr><th></th><th>Packing Weight (kg)</th></tr></thead><tbody><tr><td>1st Component</td><td>2 Parts (12 kg /pack)</td></tr><tr><td>2nd Component</td><td>1 Part (6 kg /pack)</td></tr><tr><td>PU Thinner</td><td>~1 Part (5,4 kg)</td></tr></tbody></table> <p>*: The expected performance of the product depends on the accuracy of the mixing and dilution process. Since the presentation of the products is made by packing according to the mixing ratio by weight, it is especially recommended to be made by weight by weighing in order to be sensitive to the preparation of the mixture for the application.</p>						Packing Weight (kg)	1 st Component	2 Parts (12 kg /pack)	2 nd Component	1 Part (6 kg /pack)	PU Thinner	~1 Part (5,4 kg)
	Packing Weight (kg)												
1 st Component	2 Parts (12 kg /pack)												
2 nd Component	1 Part (6 kg /pack)												
PU Thinner	~1 Part (5,4 kg)												
PHSICAL PROPERTIES			1st Component	Mixture (Diluted)									
Viscosity (D4/20°C)			100" - 120"	13" - 14"									
Non-Volatile Matter (% , weight)			50 ± 2	35 ± 2									
Density (g/cm3; 20°C)			0,998 ± 0,2	0,948 ± 0,2									
Pot-life (20°C)			-	4 hours									
DRIVING TIME													
Dust Dry (20°C, %50 humidity)				5 - 10 min									
Touch Dry (20°C, %50 humidity)				25 - 30 min									
Set Dry (20°C, %50 humidity)				120 - 150 min									
Stack (20°C, %50 humidity, 500 kg/m2)				min 16 hr									
Note: Drying times depend on ambient temperature and humidity. It should be taken into account that the time will be extended at low temperature and high humidity.													



TECHNICAL DATA SHEET

Dök.No: ÜRT-TDS-260
Yay.Tar.: 07.09.2022
Rev. No : REVİZYON-05
Rev.Tar. :09.07.2024
Sayfa : 1/1

PRODUCT

W-IMPACT PU 2+1 VARNISH

PERFORMANCE PROPERTIES

Test	Result	Unit
Hot Material (100°C) Resistance	5	(5:Best, 0:Worst)
Impact Resistance (500gr & 50cm)	5	(5:Best, 0:Worst)
Water Vapor Durability(TS EN 438-2)	5	(5:Best, 0:Worst)
Scratch Resistance (TS EN 15186)	2,5 - 3	Newton

Chemical (Exposure Time)	Result	Time of test
Water (16 hr)	5	24 hr
Ethyl Acetate/Butyl Acetate (10 sec)	5	48 hr
Ammonia Solution (2 min)	5	24 hr
Disinfectant (10 min)	5	24 hr
Cleansing Agent (1 hr)	5	24 hr
Tea (16 hr)	5	24 hr
Cooffe (16 hr)	5	24 hr
Olive Oil (16 hr)	5	24 hr
Bear (6 hr)	5	24 hr
Red Wine (6 hr)	5	24 hr
Acetone (10 sec)	5	120 hr
Ethanol (1 hr)	5	24 hr

Not: The Std test method (EN 12720) recommends testing after a minimum of 1 week. It is clearly seen that maximum performance can be achieved in the early period (see "time of test") as well.

APPLICATION METHOD :

Preparation: Before mixing, first component should be stirred well, then first and second component are mixed according to mixing ratio as much as desired amount, mixture is stirred to obtain a homogenous mixture once again. Finally, for adjusting application viscosity, required amount (according to information which is given in mixing ratio) thinner is added by mixing. Make sure a homogenous mixture is obtained before application.

First step is to color the surface by stain (The surface should be clean, dust free and sanded). There are three different product options for coloring; 1) Woodex (123-Series), 2) Wood Impregnation Varnish (113-series) and Protect over (135-Series), 3) Aquatech water-based wood preservative (013-Series).

The products to be used for coloring/staining are applied by sponge, brush or dipping method. Two to three hours after the application, the wood surfaces are ready to the application of W-IMPACT Varnish.

W-IMPACT Varnish, which is prepared according to the mixing ratios above, is applied with a spray gun in the form of 1 - 1,5 cross wise with pistole for first layer filling (50-75 g/m²) . 20 - 25 minutes after the application, 2nd layer (~50 g/m²) is applied after sanding with 220-240 No. sandpaper. 20 - 25 minutes after the application, again after sanding with 220-240 sandpaper, it is applied as 2 coats (4 cross wise) as topcoat varnish (~100 g/m²).

** : Higher gloss (i.e 70 gloss) can be achieved by applying an extra coat of 275-8134.

In total, with 2 layers of filler and 2 layers of topcoat (50 g/m² wet varnish on each layer), an average of 10m² can be covered with 1 kg (except losses).

STORAGE:

1st Components will remain stable for at least 12 months and 2nd Component is 6 months when stored in their original packs in a dry place at storage temperatures between 5-35 °C

It's recommended to read SDS before applications.