PU 1021 Isolation Sealer

Clear Polyurethane Sealer

PRODUCT DESCRIPTION

A two component, polyurethane resin, transparent, isolation sealer/primer

INTENDED USES

A clear or pigmented low-viscosity, fast drying sanding sealer for solid and veneered timber or Medium Density Fibreboard (MDF).
PU 1021 Isolation Sealer is designed to seal, sand easily and allow for excellent adhesion of subsequent coats such as reaction lacquers, nitrocellulose lacquers or polyurethane finishes.
PU 1021 Isolation sealer has an excellent insulating/isolating effect for use on resinous woods.

It is best suited for closed-pore primer coats on very dark stained woods or fore open pore finishing on naturally dark woods when finishing with a matt Multicoat.

PU 1021 Isolation Sealer has good "filling" properties for closed pore clear or pigmented finishing or for use as a thinner coat "isolation sealer" for open pore clear or pigmented finishing.

CHARACTERISTICS

- Excellent quick sand properties for hand or belt sanding
- Excellent sealing properties on edging and porous boards
- Excellent overcoat ability
- Limits the absorption of subsequent coatings into the wood, minimized shrink back
- Penetrates and "wets" the surface, leaving only a thin film
- Provides improved adhesion for subsequent coats
- Excellent durability in combination with a full polyurethane coating system
- Excellent clarity
- Excellent anti-blocking properties
- Excellent as an isolation sealer on exotic woods
- Lubricated clog free sanding

PRODUCT INFORMATION

Colour	**Clear** Can be mixed with stain concentrates to produce matching stains or stained finishes
Sheen level @ 60˚	10%
Density	0.93 kg/litre
Non-Volatile %	consult
Mix Ratio (volume)	10:1 or 10% with PU Activator 50
Pot Life	8 hours at 25°C
Typical Film Thickness	80-150 g/m² per coat
Number of Coats	2 – max 300g/m²
Method of application	Spray
Viscosity	28 – 30 seconds FC4 Un-Catalysed 20 - 22 seconds FC4 Catalysed

Specialized Coating Systems
www.speccoats.co.za
0861 37 2468

Drying Information	10°C	20°C	25°C	40°C	50°C
Touch Dry	-	1 hr.	-	-	-
Stackable	-	16 hr.	-	-	-
Thorough	-	7 days.	-	-	-

Overcoating Data – See Limitations

Substrate Temp.	10°C	20°C	25°C	40°C	50°C
Minimum	-	4 hrs.	-	-	-
Maximum	-	24 hrs.	-	-	-

Note adequate ventilation should be maintained during application and curing. If the 24 hour overcoating window is exceeded the product should be lightly sanded prior to application of subsequent coats.

CERTIFICATIONS

Consult Speccoats™ Technical Representative for details

SYSTEMS AND COMPATIBILITY

Consult Speccoats™ Technical Representative for coating system solutions.

SURFACE PREPARATION

All pre-sealed surfaces to be coated must be dry, clean and free from contamination. Prior to application the surface should be sanded to a smooth finish with fine sandpaper, working in the direction of the grain.

All sharp edges must be rounded off, ensure substrate is then free of dust by blowing with compressed air or making use of clean rags before application of coating.

150 – 180 grit with raw wood & steel
320 – 400 grit with foil, melamine, filler-coated/primed substrates
320 – 400 grit for intermediate lacquer sanding

If coating with high gloss intermediate sanding of 600-800 grit is recommended.

Specialized Coating Systems
www.speccoats.co.za
0861 37 2468

APPLICATION	**Mixing**	Material is supplied in full containers excluding catalyst. Always ensure the product is catalysed in the correct proportions, failure to do so will result in a number of problems, namely; drying, overcoating, performance, cracking, crazing etc. If unsure of how to mix, contact Specialised Coating Systems for technical support. Once mixed the product should be used within the pot life specified. Stir the base component well with a flat-bottomed paddle or mechanical mixer until product is uniform. Continue stirring and add the entire contents of the catalyst container. Continue stirring until the mixture is homogeneous. Ensure that sufficient material be mixed so that the product can be applied within its use-able life The temperature of the mixed product should preferably be above 10°C. Higher temperatures result in faster cure

APPLICATION	**Mix Ratio**	10:1 or 10% with PU Activator 50 **(Volume)**	
	Pot Life	8 hours at 25°C	
	Air Spray	Recommended	Gun: Pressure Feed Fluid Tip: 1.4 mm to 1.6 mm
	Airless Spray	Recommended	Tip Range 11-17 Thou. Pressure at the tip should not be less than 140 bar (2000 PSI)
	Thinner	Solvent EA or Solvent XL. Additions will vary depending on thinner used and temperature. Ideal viscosities will vary for different applications	
	Cleaner	SA65 Thinner	For dry paint and equipment
	Work Stoppage	Do not allow material to remain in spray equipment after use, thoroughly flush and clean all equipment with Lacquer Thinner. Once the kit has been mixed they should not be re-sealed and it is advised that of prolonged stoppages, work recommences with freshly mixed units	
	Clean Up	Clean all equipment immediately after use with Lacquer Thinner. It is advisable to periodically flush out spraying equipment during the course of the working day. Frequency of cleaning is dependant of upon the amount sprayed, temperature and elapsed time. Work strictly in accordance with the specified pot life of the material.	

Environment		Surface Temperature	Ambient Temperature	Relative Humidity
	Minimum	10°C*	15°C	No lower limit
	Maximum	35°C**	45°C	85%

*or 3° above dew point

** Higher temperatures result in reduced sag resistance and faster cure

LIMITATIONS

- Various thinners and retarders are available on request. It is essential that the viscosity is adjusted to the optimal temperature for the application at hand.
- Viscosity determines the flow properties, sag resistance, consistency of finish such as gloss levels etc.
- Viscosity is highly affected by the temperature of the mixed product, caution and inspection should be carried out through the entire pot life of the mixed product to ensure consistency.
- For best results bring the material temperature between 20-30°C, unless specifically instructed otherwise, prior to mixing with and application.
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Speccoats™ representative for specific recommendations
- This product is not suitable for immersion conditions or exterior exposure.
- Unmixed material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE section of this data sheet.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Speccoats™ makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating

PU 1021 Isolation Sealer

Clear Polyurethane Sealer

UNIT SIZE

Kit Size	Volume	Part A Pack	
1 lt	1.00 lt	1 lt	
5 lt	5.00 lt	5 lt	
20 lt	20.00 lt	20 lt	No Catalyst included
200 lt	200.00 lt	200 lt	

STORAGE

Shelf Life 12 months minimum at 25°C

Subject to inspection thereafter. Store in dry conditions out of direct sunlight away from source of heat or ignition

IMPORTANT NOTE

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

PRECAUTIONS

For complete safety and handling information please refer to the appropriate **Safety Data Sheets** prior to using this product.

Specialized Coating Systems
www.speccoats.co.za
0861 37 2468