

SHERWIN-WILLIAMS®

Industrial High Gloss

UV coating system with high scratch resistance



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High Gloss

UV coating system with high scratch resistance.

To meet the increasing demand of industrial finished high gloss for flat panel furniture, Sherwin-Williams has developed a new UV coating system for roller-coater application to compliment our already existing systems for this application. The new system has the benefit of much higher scratch resistance than previous systems, resulting in easier handling and less damages during the production process, giving less rework and a more satisfied end customer.

In combination with increased scratch resistance and toughness, the system also shows excellent flow and a very good clarity as well as optical wetting and mirror effect. With this new combination of added benefits and features, Sherwin-Williams has taken a big step in industrial high gloss finishes.

Micro scratch resistance on a standard system



Micro scratch resistance on the new improved system



Depending of substrate used and the demands of the ready made surface, system build up might vary but the re-curing part of this new system are the following two products, sanding sealer UL/61442-162 and the top lacquer UM/61363-213.



Technology

Systems

Depending on the substrate and demand of ready made surface, the system build up will vary. Below you will see a standard set-up of a basic system for a coloured or décor foil, both with the new improved system and our already existing general standard system.

Application

The high gloss step in our industrial high gloss system, sanding sealer and high gloss

topcoat, is applied with roller coaters and utilizes optiroller technology. Both products should be fully cured with mercury lamps. To achieve the highest possible finish, a flow zone of minimum 60 s is recommended between application and curing of the top lacquer.

Colour adjustments

If colour adjustments or change of colours are needed the system will also need application

steps for base coat. Base coat application should be done before the application of sanding sealer. Our recommendation is to use three roller machines, equipped with smooth rollers, with intermediate UV curing steps. Installation of three roller coaters dedicated for colour adjustment and colour change makes the installation very flexible and gives the producer possibilities to utilize the line for most applications and colours.

New improved system		Standard system	
Step	Description	Step	Description
Cleaning of foil		Cleaning of foil	
Uvett Seal UL/61496-24 9-11 g/sqm	Adhesion sealer for foil and melamine	Uvett Seal UL/61496-24 9-11 g/sqm	Adhesion sealer for foil and melamine
GA lamps	Gel cure	GA lamps	Gel cure
Uvett Seal UL/61442-162 35-45 g/sqm	Application of sanding sealer with optiroller	Uvett Seal UL1143 35-45 g/sqm	Application of sanding sealer with optiroller
UV lamps Hg	Full cure	UV lamps Hg	Full cure
Sanding	Depends on line set-up	Sanding	Depends on line set-up
Cleaning	Thorough cleaning	Cleaning	Thorough cleaning
Uvett Top 90 UM/61363-213 35-45 g/sqm	Application of top lacquer	Uvett Clear 90 UM1141-0090	Application of top lacquer
60s Flow zone	To improve the flow	60s Flow zone	To improve the flow
UV lamps Hg	Full cure	UV lamps Hg	Full cure

Benefits

Benefits of Sherwin-Williams newly developed 100% UV system for industrial high gloss finishes includes the following:

- Increased toughness and scratch resistance, resulting in easier handling in your production and a higher resistant surface for a better end result.
- Excellent flow and very good clarity as well as optical wetting and mirror effect.
- Fast process with a faster production capacity. (Up to 1 milj sqm per shift and year).
- One pass finishes, per coated side, resulting in less handling in your production.
- No polishing is needed. Eliminating a costly and time consuming step in your production.
- Solvent free technology, reducing the risk of fire and improves the working environment.
- Utilizing a well tested standard equipment with a long track record as well as a large number of successful references.
- Flexible system opening up new possibilities to do a variation of surface looks.

Please contact Sherwin-Williams for recommendations and detailed discussions regarding systems, substrates etc.

Sherwin-Williams – Your Coating Solutions Partner

The Sherwin-Williams Company (SHW), through its Product Finishes Division, is an industrial coatings leader that delivers local finishing solutions on a global scale to OEMs and tier suppliers. Comprised of coatings professionals dedicated to providing unparalleled customer support, Sherwin-Williams brings value to the finishing process through solutions like on-site technical assistance, customized products, colour and design services, and process improvement expertise. With innovative liquid and powder coating technologies to protect wood, metal and plastic, as well as finishing equipment and supplies needed for coatings application, Sherwin-Williams utilizes an infrastructure spanning six continents to provide better finishing solutions for manufacturers.

Since 1866, Sherwin-Williams has provided manufacturers and finishers with the coatings they need to make their products look better and last longer, while helping their operations meet productivity and sustainability goals. For both wood and general industrial markets, our innovative solutions go beyond coatings to include knowledge, tools, equipment, supplies, and industry-leading support. We're more than a coatings provider – we are Your Coating Solutions Partner.

Visit us at www.sherwin-williams.eu

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