UV SPECIAL EFFECT PRODUCTS & SPECIFICATIONS

Introduction to UV cured Special Effect Products and more:

Special Effect Products are UV curable coatings for an array of enhanced creative finishes that provides thick film deposit (3D), deep high gloss, textures, abrasives, wrinkle, coral, bubble, matte, glitter and micro embossing (fine line holograph) offering an incredible result in graphic applications that are 100% screen printed. A stunning visual enhancement can be achieved when screen printing Special Effect Products and can be arranged in a single application or multiples.

Special Effect Products will enable any printing company to win business and increase profits due to added-value finishing, be it screened, offset or digital prints. Virtually every company today is exploring ingenious ways to enhance their products to add or create value-added additions in the printing process. These products are not the me too kind, they are truly unique, each one have distinct properties for the screen printing and many applications will 'knock-your-socks-off".

The results have such a visual impact that nearly any commercial graphic application can be enlivened to provide your company with compelling and genuine differentiation from your competition! Application versatility is only limited to ones imagination be it packaging, general merchandise, electronic applications and numerous other printing applications.

All Special Effect Products are environmentally friendly, based on ISO9001 quality system and 5S philosophy (Lean Manufacturing Implementation). Each product meets stringent international quality standards and are well suited for all areas of the world.

ISO 9001 quality system, with three (3) inspection standards;

- America ASTM-F963-95A
- Europe EN-71 PART 3
- Japan ST MARK PART 3
- RoHS

All Special Effect Products are formulated to yield a durable yet flexible film that measures up to 3E industry standards, low Energy consumption, Environmentally friendly and highly Efficient.

PRODUCT PACKAGE: 1 KG / 5 KGS Containers

"When printing become product profits increase"

RH SOLUTIONS LLC 127 Lakefield Drive Milford, OH 45150 USA
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RH SOLUTIONS LLC
Passion for printing enhanced by quality products

User Information:

1. **Substrate & Adhesion:** Printing appearance will be affected by the condition of the substrate, for example, type, coated/uncoated, absorbency, topography, surface tension and cleanliness. For best adhesion surface tension over 38-dyne level is recommended. Always check adhesion immediately before production to ensure the print meets the end use requirements. In addition, choose recommended substrate for each product for the best printing results.

2. **Printing Parameters:** Normally all products are formulated to be press ready, however some may require additives for desired application. Thoroughly mix the ink before printing. Highly recommended; 1 KG mix for 10 minutes and 5 KG for 20 minutes using a 1500 rpm ink mixer with a mixing blade. Pretest to determine optimum printing performance for a particular set of product, substrate, mesh type/count, emulsion thickness, squeegee material, press speed and curing variables/conditions. Maintain product temperature at 65°-77°F (18°-25°C) for optimum print and cure performance. Lower temperatures increase product viscosity, impairing flow and cure. Elevated temperatures lower viscosity, reducing print definition, and film thickness.

3. **UV Curing:** Even when recommended UV energy output levels are achieved, it is imperative to check adhesion on a cooled down print. Sufficient UV power is necessary to obtain a full cure. Each product has different UV power requirement. End user should follow relevant specifications and check UV lamp(s) for proper output and change UV lamp(s) before they decrease in output and warranty period. The guideline for each product is intended only as a starting point for determining cure parameters, which means that the final settings must be determined under actual production conditions.

4. **Storage:** Generally speaking, UV products can be kept for 6-8 months or longer if kept in the condition of ventilation, cool and constant temperature of 65°-77°F (18°-25°C). Always mix thoroughly when any additives are added in and before use.

5. **Precautions:** Product surplus must be kept firmly in container when not in use to avoid exposure to dust and light. Any product taken from the press should not be returned to the original container; store separately to avoid contaminating unused ink. After long usage excess ink from the screen should be properly disposed. The ink can be affected by stray UV light. Be aware of skylights, windows and overhead lights curing the ink in the screen. Leaving a container uncovered may result in product surface forming a “skin” caused by initial chemical reaction with room lighting or other stray lights. Keep containers covered. Light filters are recommended.

6. **Product Handling:** Direct skin contact to UV inks is the primary route of exposure and irritation. Therefore, it is recommended that all personnel handling these products wear gloves to prevent direct skin contact. Safety glasses are suggested in areas where ink may be splashed. If ink comes in contact with skin, wipe off with a clean, dry cloth (do not use solvent or reducer). Wash effected area with soap and warm water. Consult the Material Safety Data Sheet for further instructions and warnings.

Please note: While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. See full disclaimer at the end of each product document.

RH SOLUTIONS LLC 127 Lakefield Drive Milford, OH 45150 USA
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RHUV-GLOSS FOR MATTE AND COATED MATERIALS

SUBSTRATES
Formulated for all kinds of paper, coated PET film, BOPP film, matte paper, rigid PVC, ABS, PP plastic materials.

FINISHED PRODUCTS / END USES
General merchandise and publishing materials, such as food packaging, cosmetic, audiovisual products, posters, magazines, pictorial etc.

PRODUCT INFORMATION
High gloss, good flow capability and excellent adhesion, formulated for all kinds of matte lamination

CHARACTERISTICS	Glossiness	Yellow Changing Resistance	Water Resistance	Alkali Resistance	Solvent Resistance	Flexibility	Adhesion
DESCRIPTION RHUV-Gloss for Matte & Coated Materials	87-89	Adjustable	Grade 5	Grade 4	Grade 3	Excellent	Excellent

TECHNICAL PARAMETERS	Appearance	Viscosity @ 77°F (25℃)	Solidification/Curing Speed	Solidification/Curing Power	Resin
DESCRIPTION RHUV-Gloss for Matte & Coated Materials	Milky white	340-420p	49-82 ft/min (15-25m/min)	≥120mj/cm²	98%

APPLICATION INFORMATION

MESH
Monofilament polyester mesh count 305-380 (120-152T metric), medium thread diameter with a good screen tension of at least 24-26 N/cm²

SQUEEGEE
65-75 durometer good quality polyurethane solvent resistance blade

COVERAGE
Approx. 376 - 430 square feet/kg (35-40㎡/kg) with mesh count of 355 (140T metric)

CURE
By Ultra Violet curing unit, best with 2 medium/high voltage mercury-vapor lamps of at least 5 Kw to ensure sufficient power for curing

ADDITIVES
Use UV Reducer (#1 or #2) to reduce viscosity and UV Adhesion Promoter to improve cure speed

CLEAN UP
Use organic solvents to clean the screen and wait until it has evaporated before printing

NOTE:
1 RHUV-Gloss Series have excellent flexibility and formulated to be press ready. Thoroughly mix product before printing. To avoid risk of sticking together make sure the UV curing unit has good exhaust/ventilation. If the UV Unit does not have sufficient cooling separate substrate individually and reduce the temperature before stacking together.

2 See User Information for more details.

RHUV-110a GLOSS & RHUV-200 GLOSS

SUBSTRATES
Formulated for all kinds of paper, PC, PVC, copperplate paper, card paper, synthetic paper and other package printing paper.

FINISHED PRODUCTS / END USES
Books, calendar, general merchandise or posters etc.

PRODUCT INFORMATION
RHUV-110a Gloss High gloss, good flow capability, and excellent adhesion.
RHUV-200 Gloss High gloss, good flow capability, high durability, excellent adhesion.

CHARACTERISTICS	Glossiness	Water Resistance	Alkali Resistance	Solvent Resistance	Flexibility	Adhesion
DESCRIPTION RHUV-110a	95-98	Grade 5	Grade 5	Grade 5	Excellent	Good
RHUV-200	88-90	Grade 5	Grade 3	Grade 3	Excellent	Excellent

TECHNICAL PARAMETERS	Appearance	Viscosity @ 77°F (25℃)	Solidification/Curing Speed	Solidification/Curing Power	Resin
DESCRIPTION RHUV-110a	Milky white	340-420p	65-98 ft/min (20-30m/min)	≥70mj/cm²	98%
RHUV-200	Milky White	330-350p	49-82 ft/min (15-25m/min)	≥110mj/cm²	98.5%

APPLICATION INFORMATION

MESH

Monofilament polyester mesh count 305-355 (120-140T metric), medium thread diameter with a good screen tension of at least 24-26 N/cm²

SQUEEGEE
65-75 durometer good quality polyurethane solvent resistance blade

COVERAGE
Approx. 376 - 409 square feet/kg (35-38㎡/kg) with mesh count of 305 (120T metric)

CURE
By Ultra Violet curing unit, best with 2 medium/high voltage mercury-vapor lamps of at least 5 Kw to ensure sufficient power for curing.

ADDITIVES
Use UV Reducer (#1 or #2) to reduce viscosity

CLEAN UP
Use organic solvents to clean the screen and wait until it has evaporated before printing

NOTE:
1 RHUV-110, 200 products can meet printing requirements of most any kind of paper, but testing is required.
2 RHUV-110a does not have good resistance to fold and pressure.
3 RHUV-200 has good flexibility and adhesion. Stronger UV power is required to ensure thorough curing.
4 Pre-test before printing and see User Information for more details.

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RHUV-CONVEXITY 3D

SUBSTRATES
Formulated for coated materials such as PET film, BOPP film, matte paper, rigid PVC, ABS, PP plastic materials and phosphide.

FINISHED PRODUCTS / END USES
Daily necessities and stationary supplies such as packaging for wine, cigarettes, food, cosmetic, audio visual products, magazine and pictures etc.

PRODUCT INFORMATION
Bright transparent finish, smooth, high gloss, good adhesion, excellent flexibility and flow. Especially suited for coated materials.

CHARACTERISTICS	Glossiness	Water Resistance	Alkali Resistance	Solvent Resistance	Flexibility	Adhesion
DESCRIPTION RHUV-Convexity (3D)	87-89	Grade 5	Grade 4	Grade 3	Excellent	Good

TECHNICAL PARAMETERS	Appearance	Viscosity @ 77°F (25℃)	Solidification/Curing Speed	Solidification/Curing Power	Resin
DESCRIPTION RHUV-Convexity (3D)	Milky white	280-320p	49-82 ft/min (15-25m/min)	≥90mj/cm²	99%

APPLICATION INFORMATION

MESH
Monofilament polyester mesh count 156 (60T metric), medium thread diameter with a good screen tension of at least 24-26 N/cm²

SQUEEGEE
70-75 durometer good quality polyurethane solvent resistance blade

COVERAGE
Changes with various mesh count

CURE
By Ultra Violet curing unit, best with 2 medium/high voltage mercury-vapor lamps of at least 5 Kw to ensure sufficient power for curing

ADDITIVES
Use UV Reducer (#1 or #2) to reduce viscosity, UV Bubble Remover (0.5 - 1.5%), and UV Adhesion Promoter to improve the Curing time.

CLEAN UP
Use organic solvents to clean the screen and wait until it has evaporated before printing

NOTE:
1 Please note that the product will tack when exposed to high temperatures. To avoid risk of sticking together make sure the UV curing unit has good exhaust/ventilation. If the UV Unit does not have sufficient cooling separate substrate individually and reduce the temperature before stacking together. Avoid stacking unless product is tack free.

2 See User Information for more details.

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RHUV-CRYSTAL

SUBSTRATES
Formulated for paper and paper board

FINISHED PRODUCTS / END USES
Packaging for wine, cigarettes, calendar, publishing material and stationery etc.

PRODUCT INFORMATION
Crystal effect with bright transparent finish, smooth, high flexibility, and dazzling light glistening. For sparkling effect, add glitter flakes.

CHARACTERISTICS	Glossiness	Water Resistance	Alkali Resistance	Solvent Resistance	Flexibility	Adhesion
DESCRIPTION RHUV-Crystal	95-97	Grade 5	Grade 5	Grade 5	Excellent	Good

TECHNICAL PARAMETERS	Appearance	Viscosity @ 77°F (25℃)	Solidification/Curing Speed	Solidification/Curing Power	Resin
DESCRIPTION RHUV-Crystal	Transparent or yellowish liquid	280-320p	49-82 ft/min (15-25m/min)	≥90mj/cm²	99%

APPLICATION INFORMATION

MESH
Monofilament polyester mesh count 40-80 (16-32T metric) when printing with glitter flakes. For most applications use 255-355 (100-140T) medium thread diameter with a good screen tension of at least 24-26 N/cm²

SQUEEGEE
70-75 durometer good quality polyurethane solvent resistance blade

COVERAGE
Changes with various mesh count

CURE
By Ultra Violet curing unit, best with 2 medium/high voltage mercury-vapor lamps of at least 5 Kw to ensure sufficient power for curing

ADDITIVES
Use UV Reducer (#1 or #2) to reduce viscosity and UV Bubble Remover (0.5-1.5%)

CLEAN UP
Use organic solvents to clean the screen and wait until it has evaporated before printing

NOTE:
1 To avoid risk of sticking together make sure the UV curing unit has good exhaust/ventilation. If the UV Unit does not have sufficient cooling separate substrate individually to reduce the temperature before stacking together. Avoid stacking unless product is tack free.

2 See User Information for more details.

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RHUV-CRYSTAL FOR COATED MATERIALS

SUBSTRATES
Formulated for paper and paper board.

FINISHED PRODUCTS / END USES
Packaging for wine and cigarettes, calendar, publishing material and stationery etc.

PRODUCT INFORMATION
Crystal effect with bright transparent finish, smooth, high flexibility, and dazzling light glistening. Formulated for coated materials, add glitter flakes sparkling effect.

CHARACTERISTICS	Glossiness	Water Resistance	Alkali Resistance	Solvent Resistance	Flexibility	Adhesion
DESCRIPTION RHUV-Crystal For Coated Materials	95-97	Grade 5	Grade 5	Grade 5	Excellent	Good

TECHNICAL PARAMETERS	Appearance	Viscosity @ 77°F (25℃)	Solidification/Curing Speed	Solidification/Curing Power	Resin
DESCRIPTION RHUV-Crystal for Coated Materials	Transparent or yellowish liquid	280-320p	49-82 ft/min (15-25m/min)	≥90mj/cm²	99%

APPLICATION INFORMATION

MESH
Monofilament polyester mesh count 61 (24T metric), when printing with glitter flakes. For most applications use 255-355 (100-140T) medium thread diameter with a good screen tension of at least 24-26 N/cm²

SQUEEGEE
70-75 durometer good quality polyurethane solvent resistance blade

COVERAGE
Changes with various mesh count

CURE
By Ultra Violet curing unit, best with 2 medium/high voltage mercury-vapor lamps of at least 5 Kw to ensure sufficient power for curing

ADDITIVES
Use UV Reducer (#1 or #2) to reduce viscosity and UV Bubble Remover (0.5-1.5%)

CLEAN UP
Use organic solvents to clean the screen and wait until it has evaporated before printing

NOTE:
1 To avoid risk of sticking together make sure the UV curing unit has good exhaust/ventilation. If the UV Unit does not have sufficient cooling separate substrate individually to reduce the temperature before stacking together. Avoid stacking unless product is tack free.

2 See User Information for more details.

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RHUV-CORAL (BUBBLE)

SUBSTRATES
Formulated paper and PVC.

FINISHED PRODUCTS / END USES
Calendar, wine packaging and cosmetic boxes etc.

PRODUCT INFORMATION
Coral tree strip effect on the surface, which is distinct in space and lightness, branch sharp have bubble effect inside.

CHARACTERISTICS	Glossiness	Water Resistance	Scratch Resistance	Flexibility	Adhesion
DESCRIPTION RHUV-Coral (Bubble)	Varies with substrate	Grade 5	Good	Good	Excellent

TECHNICAL PARAMETERS	Appearance	Viscosity @ 77°F (25℃)	Solidification/Curing Speed	Solidification/Curing Power	Resin
DESCRIPTION RHUV-Coral (Bubble)	Transparent liquid	100-120p	65-98 ft/min (20-30m/min)	≥60mj/cm²	98%

APPLICATION INFORMATION

MESH
Monofilament polyester mesh count 158-196 (60-80T metric) medium thread diameter with a good screen tension of at least 24-26 N/cm²

Use HD thread diameter for a thicker film deposit, better hand feel and coral effect.

SQUEEGEE
70-75 durometer good quality polyurethane solvent resistance blade

COVERAGE
Approx. 269-323 square ft/kg (25-30㎡/kg) with mesh count 196 (72T metric)

CURE
By Ultra Violet curing unit, best with 2 medium/high voltage mercury-vapor lamps of at least 5 Kw to ensure sufficient power for curing

ADDITIVES
Use UV Reducer (#1 or #2) to reduce viscosity

CLEAN UP
Use organic solvents to clean the screen and wait until it has evaporated before printing

NOTE:
1 Coral Effect is also called Bubble, for close bubble effect; use 3-5% Diluter thinner to adjust viscosity.
2 Mesh count, printing speed and pressure are important factors in determining the printing effect, it is recommended to print with high speed and advance printing technology.
3 The size of the strip can be adjust by the amount of time before product reaches curing machine. Usually the strip will be clear if it is cured right after printing, otherwise, it can be large and blurry.
4. See User Information for more details.

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RHUV-ICY SNOW

SUBSTRATES

Formulated for general paper, PVC, PC and other plastics.

FINISHED PRODUCTS / END USES

High grade packaging for wine and cigarette, calendar and gift-wrap etc.

PRODUCT INFORMATION

Matte, ice effect on finish, dazzling and light glistening.

CHARACTERISTICS	Glossiness	Water Resistance	Alkali Resistance	Solvent Resistance	Flexibility	Adhesion
DESCRIPTION RHUV-Icy Snow	7-10	Grade 5	Grade 4	Grade 3	Excellent	Excellent

TECHNICAL PARAMETERS	Appearance	Viscosity @ 77°F (25℃)	Solidification/Curing Speed	Solidification/Curing Power	Resin
DESCRIPTION RHUV-Icy Snow	Milky white	160-180p	65-98 ft/min (20-30m/min)	≥150mj/cm²	99.5%

APPLICATION INFORMATION

MESH

Monofilament polyester mesh count 305-380 (120-152T metric) medium thread diameter with a good screen tension of at least 24-26 N/cm²

Mesh selection determines film deposit, gloss and speed of creating an Icy Snow effect.

SQUEEGEE

70-75 durometer good quality polyurethane solvent resistance blade

COVERAGE

Approx. 430-486 square ft/kg (40-45㎡/kg) with mesh count 355 (140T metric)

CURE

By Ultra Violet curing unit, best with 2-3 high/medium voltage mercury-vapor lamps (depending on operating rate or speed) at least 5Kw to ensure sufficient UV power for curing. One lamp for creating ice and one or two lamps for curing.

ADDITIVES

Use UV Reducer (#1 or #2) to reduce viscosity

CLEAN UP

Use organic solvents to clean the screen and wait until it has evaporated before printing

NOTE:

1 Icy Snow is usually printed on color substrates. The appearance and adhesion ability will affect the size and equality of ice, while the chroma is a factor in determining the ice effect.
2 Ice Snow effect can be controlled and adjusted by the UV curing unit conveyor speed.
3 Icy Snow has recommended curing requirement of 3 high/medium voltage mercury-vapor lamps are need for curing. One lamp for creating ice and the two are for curing.
4 Cured Icy Snow products are low odor, soft, good adhesion and fold resistance. It is suitable for high grade packaging printing.
5.See User Information for more details.

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RHUV-WRINKLE

SUBSTRATES
Formulated golden and silver paper, PVC, organic glass and some filmed paper.

FINISHED PRODUCTS / END USES
Packaging for wine, cigarettes, stationary, tea, cosmetics and gifts etc.

PRODUCT INFORMATION
Wrinkle effect on finish, texture can affected by mesh count and thread diameter.

CHARACTERISTICS	Glossiness	Water Resistance	Alkali Resistance	Solvent Resistance	Flexibility	Adhesion
DESCRIPTION RHUV-Wrinkle	Changes with substrate	Grade 2	Grade 3	Grade 4	Excellent	Good

TECHNICAL PARAMETERS	Appearance	Viscosity @ 77°F (25℃)	Solidification/Curing Speed	Solidification/Curing Power	Resin
DESCRIPTION RHUV-Wrinkle	Transparent or Yellowish	250-300p	49-82 ft/min (15-25m/min)	≥90mj/cm²	99%

APPLICATION INFORMATION

MESH
Monofilament polyester mesh count 125-255 (48-100T metric) medium thread diameter with a good screen tension of at least 24-26 N/cm²

SQUEEGEE
65-75 durometer good quality polyurethane solvent resistance blade

COVERAGE
Approx. 323-377 square ft/kg (30-35㎡/kg) with mesh count 196 (72T metric)

CURE
By Ultra Violet curing unit, best with 3 - 40 watt lamps and 2 high/medium voltage mercury-vapor lamp at least 5Kw to ensure sufficient UV power for curing.

ADDITIVES
Use UV Reducer (#2) to reduce viscosity

CLEAN UP
Use organic solvents to clean the screen and wait until it has evaporated before printing

NOTE:
1 The printing effect will be affected by water condition of the substrate surface and humidity. If the paper contains plenty of water or it is high in humidity when printing, it may cause the phenomena of mildew or bad adhesion. To solve this problem, the user should:
A. Dry the moist paper by preconditioning in the UV curing unit.
B. Avoid printing in moist surroundings or high humidity.
C. If the image comes off in scales, peels or sheds precondition in the UV curing unit. Peeling or shedding of layer is also known as desquamation.
2 When printing on matte film paper, the process of crinkling will reduce on the contact surface with substrate. At the same time, crinkling can result in product concentration, with decrease in matte film treatment; some wrinkle product then loses adhesion. Choose the proper matte film paper to avoid this problem. User should always pretest substrate to determine the best matte film paper for wrinkle product.
3 When printing on paper covered PVC and organic glass sheet, use alcohol to clean the surface to improve long lasting adhesion.
4 Mesh count, thickness of emulsion, voltage of wrinkle lamps and conveying speed of curing machine are important factors in determining printing effect. Pretest before printing is required.
5.See User Information for more details.

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RHUV-REFRACTIVE

SUBSTRATES
Formulated gold or silver paper, laser card, PVC material etc.

FINISHED PRODUCTS / END USES
Packaging for wine and cigarette, calendar and gift-wrap etc.

PRODUCT INFORMATION
High reflectivity (refractive) effect on finish, dazzling and glistening and fine line printability. In combination with vector files a holograph effect can be achieved.

CHARACTERISTICS	Glossiness	Water Resistance	Alkali Resistance	Solvent Resistance	Flexibility	Adhesion
DESCRIPTION RHUV-Refractive	Changes with substrate type	Grade 5	Grade 4	Grade 3	Good	Good

TECHNICAL PARAMETERS	Appearance	Viscosity @ 77°F (25℃)	Solidification/Curing Speed	Solidification/Curing Power	Resin
DESCRIPTION RHUV-Refractive	Transparent liquid	250-300p	65-98 ft/min (20-30m/min)	≥50mj/cm²	99%

APPLICATION INFORMATION

MESH
Monofilament polyester mesh count 355-420 (140-170T metric) medium thread diameter with a good screen tension of at least 24-26 N/cm²

SQUEEGEE
75 durometer good quality polyurethane solvent resistance blade

COVERAGE
Approx. 430-square ft/kg (40m²/kg) with mesh count 420 (170T metric)

CURE
By Ultra Violet curing unit, best with 2 high/medium voltage mercury-vapor lamps at least 5Kw to ensure sufficient UV power for curing.

ADDITIVES
Use UV Reducer (#1 or #2) to reduce viscosity

CLEAN UP
Use organic solvents to clean the screen and wait until it has evaporated before printing

NOTE:
1 The production of film and mesh play an important role in printing refractive effect. The fineness and glossiness of the printed image are determined by the quality of the mesh and substrate glossiness.
2 For fine printing line, pay close attention to adjust the viscosity, squeegee edge sharpness and printing methods.
3 If the squeegee is pneumatically control it is recommended to keep air pressure under 7-8kgf/cm, 0.68-0.78mpa. The squeegee edge quality will be necessary to improve print quality and a rotary cutter will produce the best edge for fine line work. Too much squeegee pressure and a poor squeegee edge will cause blurred image.
4 See User Information for more details.

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RHUV-120b MATTE

SUBSTRATES
Formulated paper, card, synthetic paper, PVC, PET and PC etc.

FINISHED PRODUCTS / END USES
Packaging for wine, cigarettes, publishing material, calendar and cosmetic boxes etc.

PRODUCT INFORMATION
Excellent matte effect on gloss substrates, smooth and close surface imaging characteristics with good adhesion on paper and plastic

CHARACTERISTICS	Glossiness	Water Resistance	Acid Resistance	Alkali Resistance	Flexibility	Adhesion
DESCRIPTION RHUV-120b Matte	8-12	Grade 5	Grade 3	Grade 3	Good	Excellent

TECHNICAL PARAMETERS	Appearance	Viscosity @ 77°F (25℃)	Solidification/Curing Speed	Solidification/Curing Power	Resin
DESCRIPTION RHUV-120b Matte	Milky paste	300p	49-82 ft/min (15-25m/min)	≥120mj/cm²	98%

APPLICATION INFORMATION

MESH
Monofilament polyester mesh count 254-355 (100-140T metric) medium thread diameter with a good screen tension of at least 24-26 N/cm²

SQUEEGEE
70-75 durometer good quality polyurethane solvent resistance blade

COVERAGE
Approx. 323-377-square ft/kg (30-35㎡/kg) with mesh count 355 (140T metric)

CURE
By Ultra Violet curing unit, best with 2 high/medium voltage mercury-vapor lamps at least 5Kw to ensure sufficient UV power for curing.

ADDITIVES
Use UV Reducer (#1 or #2) to reduce viscosity and UV Adhesion Promoter to improve cure speed

CLEAN UP
Use organic solvents to clean the screen and wait until it has evaporated before printing

NOTE:
1 RHUV-120b is a milky paste that is high in viscosity, thoroughly mix product before printing.
2 High gloss substrates may affect the matte effect of the product.
3 It is required to pretest before usage.
4 See User Information for more details.

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RHUV-ABRASIVE (GOLDEN, SILVER, SMALL, MID AND STRONG)

SUBSTRATES
Formulated for coated PVC and paper board.

FINISHED PRODUCTS / END USES
Packaging for wine, cigarettes, publishing material, calendar and cosmetic boxes etc.

PRODUCT INFORMATION
Excellent adhesion on substrate, high durability and sandy effect on finish.

CHARACTERISTICS	Sand Grains	Water Resistance	Acid Resistance	Alkali Resistance	Flexibility	Adhesion
DESCRIPTION RHUV-Abrasive small – strong)	From fine to thick	Grade 5	Grade 5	Grade 5	Good	Excellent
RHUV-Abrasive for Plastic (#0501)	Adjustable	Grade 4	Grade 3	Grade 3	Good	Excellent

TECHNICAL PARAMETERS	Appearance	Viscosity @ 77°F (25℃)	Solidification/Curing Speed	Solidification/Curing Power	Resin
DESCRIPTION RHUV-Abrasive	Milky paste	150-250p	65-98 ft/min (20-30m/min)	≥120mj/cm²	98%
RHUV-Abrasive for Plastic (#0501)	Milky paste	250-280p	48-82 ft/min (15-25m/min)	≥120mj/cm²	97%

APPLICATION INFORMATION

MESH
Strong - monofilament polyester mesh count 110-196 (43-77T metric); Mid – mesh count 196-305 (77-120T metric); Small – mesh count 305-380 (120-150T metric) medium thread diameter with a good screen tension of at least 24-26 N/cm²

Plastic - monofilament polyester mesh count 110-158 (40-68T metric) medium thread diameter with a good screen tension of at least 24-26 N/cm²

SQUEEGEE
75-80 durometer good quality polyurethane solvent resistance blade

COVERAGE
Strong sand: 215 square ft/kg (20m²/kg), Mid sand: 269 square ft/kg (25m²/kg), Small sand: 377 square ft/kg (35m²/kg)

CURE
By Ultra Violet curing unit, best with 2 high/medium voltage mercury-vapor lamps at least 5Kw to ensure sufficient UV power for curing.

ADDITIVES
Use UV Reducer (#3) to reduce viscosity and UV Adhesion Promoter to improve cure speed

CLEAN UP
Use organic solvents to clean the screen and wait until it has evaporated before printing

NOTE:
1 The texture of (strong – small) sand can be adjusted by choosing various products suited for your desired application and/or mesh count.

2 The sand grain effect, appearance, odor and flexibility of the product can be adjusted to meet the requirements of high grade packaging for wine, cigarettes and many other industries.

3 See User Information for more details.

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