Radiant Tips

December 2018

Exciting, light reflective, micro textures create a unique holographic look.

Sappi's Radiant Texture Collection is an ultramodern and futuristic microtexture which creates a spectrum of holographic color when the surface catches the light.
The textures in the Radiant Collection provide a finish without the need to use expensive metallic pigments or offline finishing.

Sappi's technical service team is available to help you obtain best results with your casting.

Using the Radiant Collection Release Paper and Reuse

Sappi's Radiant Collection textures are unique. Follow these recommendations to achieve the best possible product results.

- Coating any of the Radiant Collection textures is similar to coating a patent high gloss paper
- It should be stressed that it is important to use a good quality resin of the correct elongation modulus
- The Radiant Collection textures behave perfectly with 100% PU. It is possible to obtain a good Semi-PU result but only with the correct PU
- The viscosity has to be correct, high melting point, excellent compatibility with PVC (it has to create a good barrier against the migration of the plasticizer). PVC results are good and no problems occur if the PVC has the correct viscosity. Automotive grade plasticizers are recommended in order to prevent migration and hazing
- We do not recommend the use of isocyanate cross-linkers for Radiant Collection textures

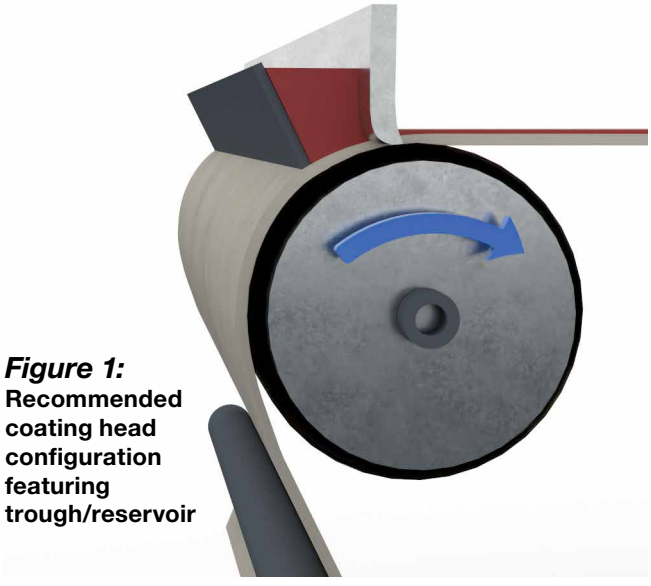


Figure 1: **Recommended coating head configuration featuring trough/reservoir**

Casting Notes:

100% PU Process

- **First coat PU pre-skin:** should be a medium to high modulus PU (30 to 40 GPSM wet maximum)
- **Second coat PU skin:** should be about 150 GPSM wet. The second skin should be a lower modulus, to maintain flexing properties
- **Adhesive coat:** should be a softer PU (120 GPSM wet)
- The above recommendations assume lamination with a Coagulated base

Semi-PU Process

- When producing a Semi-PU product, pay particular attention to the types of materials utilized
- The first coating PU skin should be of a high modulus, to compensate for the second plasticized PVC skin layer. It is critical that you use an automotive grade non-migrating plasticizer
- The second coating should be a solid PVC skin
- For expanded PVC (foam) a third coating is required
- For other constructions and backings, formulas a thorough lab evaluation is required

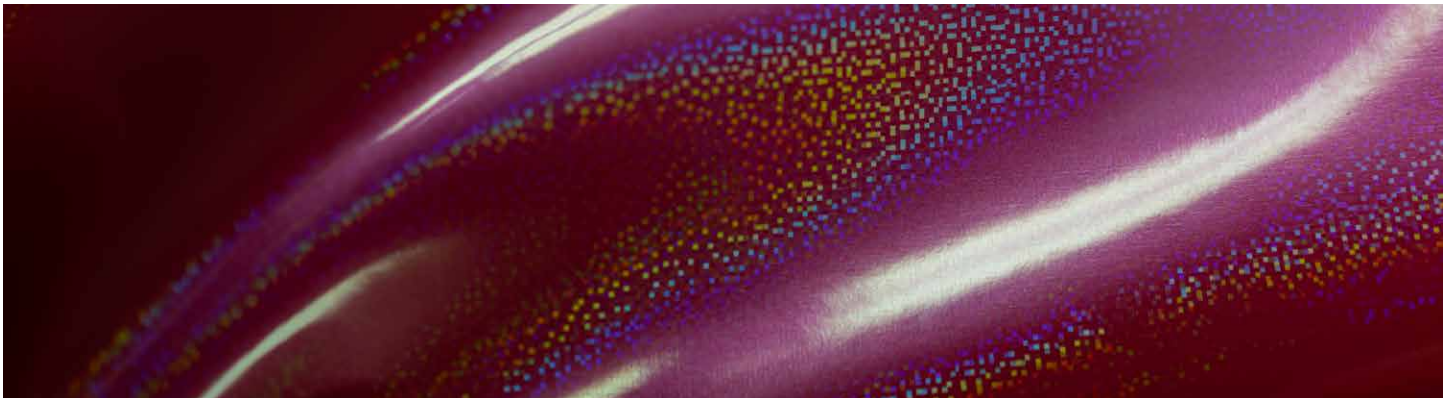
Sample Radiant Formula

1st Head – KOR	90 GPSM Wet
Materials	Parts
High Modulus PU	100.00
Solvent to Dilute	10.00
No Pigment	00.00

2nd Head – KOR	150 GPSM Wet
Materials	Parts
Medium Modulus PU	100.00
Solvent to Dilute	10.00
Iriodin 7215 Red Pigment	02.00
Organic Red Pigment	00.20

3rd Head – KOR	120 GPSM Wet
Materials	Parts
OCS Type Adhesive	100.00
Solvent to Dilute	20.00
Organic Red Pigment	03.00
Organic Yellow Pigment	01.00
White Pigment	01.50
Transparent Black Pigment	00.10
Organic Bordo Pigment	05.00

Laminated to Red Coag Base Semi-WetCured at 150° C for 2 minutes



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