



Product	Aug 2025
Description	Phoenix release RC10LVFA is a coater ready release coating, suitable for Direct Thermal Linerless applications with film and paper and shows excellent adhesion to thermal films. The RC10LVFA can be applied via different coating technologies. UV- curing only with nitrogen-inert UV- systems. Rest oxygen level < 50ppm.
Features	<ul style="list-style-type: none">Designed for easy release applications.Suitable for medium- pressure UV and LED curing technology.Excellent anchorage.Fast curing with stable peel force also after thermal aging.Suitable for indirect food contact after complete UV- curing.Excellent mechanical and chemical resistance.Highcoating quality.Less contamination on the thermal heads.Suitable for a wide range of pressure sensitive adhesives.
Precautions	<p>The product can be stored in a dry environment with temperature between 5 – 40 °C. The shelf life is 12 months from date of production. RC10LVFA needs to be stirred for at least 5 mins with a motor driven high speed agitator prior to application and continually mixed and recirculated during use to maximize consistency. Close container immediately after usage. When pre-printing prior to apply the Phoenix RC10LVF, it must be checked whether the printing ink meets the following properties and requirements:</p> <ul style="list-style-type: none">Pay attention that the inks are well UV- cured.Check the adhesion of the pre- printed ink before applying the RC10LVFA.Inks should not contain (non-reactive) silicone additives, waxes or any other surface-active ingredients which can influence the characteristic of the Release Coating negatively.

Performance

Property	Value	Units
• Viscosity:	750- 1050	mPa.s
• Appearance:	milky white	
• RF Tesa 7475 FTM3:	10-15	cN/25 mm
RF Tesa 7475 FTM10:	10-15	cN/25 mm
• RF Tesa 4090 FTM3:	5-10	cN/25mm
RF Tesa 4090 FTM10:	5-10	cN/25mm
• Subsequent Adhesion FTM11:	> 90	%

Important Checks

- The UV- curing system need to have sufficient performance and UV dose.
- **Regular maintenance of quartz plate, UV lamps, reflector and nitrogen supply is indispensable for safe and stable curing results.**
- Corona treatment will improve wetting and anchorage.
- Trouble- free processing in the thermal printer with a coating weight of ~1g/m².
- Heating to 40°C would be beneficial for stable production conditions.
- To check the curing performance at the coating unit, make the Loop test: Apply an ~20cm tape on the cured silicone. Peel it off and form a loop by putting the adhesive side together. Check by opening the loop if there is silicon migration to the adhesive.

Background

The information is based on our experience. Because of the differences in materials for printing, processing conditions and test criteria this information can only be of an advisory nature. Our data reflect the latest state of our knowledge and are based on the characteristics established in the laboratory and on practical experience. Your own tests with the original materials under the respective conditions are indispensable. We disclaim any liability for applications for which this product is not foreseen. The user must determine under his own production conditions if the product meets his requirements.