UVivid
UV Narrow Web Printing Inks

Hints & Tips

RN034 UVivid Rotary Combination White

RN034 has been formulated to offer the optimum rotary screen / UV flexo combination print result. Using these recommendations it should be possible to run at speeds up to 60m/min and obtain a smooth, high gloss finish that is virtually pin-hole free.

1. **To optimise results with this ink system it is essential to employ the following housekeeping measures.**
   - **a.** The performance of RN034 is greatly reduced by silicone contamination therefore ideally a new screen should be used. If a new screen is not an option, the old screen must be thoroughly cleaned to remove all traces of previous screen inks. This is particularly relevant to screens that have been through an automated cleaning cycle where silicone contamination from used solvent is possible. In this case a final rinse with alcohol should be performed to ensure all possible residual contamination is removed.
   - **b.** If a pump is used to deliver ink to the screen head, it must be fully flushed to avoid cross contamination. Ideally any hoses should be replaced with new ones. The inside of the squeegee arm must also be thoroughly cleaned.
   - **c.** The squeegee, squeegee holder and outside of the squeegee arm must be fully cleaned down. Residual ink must be removed from screw heads and in the crease between the squeegee and squeegee clamp.
   - **d.** It is important to use a new syringe to introduce RN034 in to the screen. Previous ink systems may have contaminated a used syringe. One must also be careful in the selection of syringes used for this purpose. Some models contain a silicone lubricant on the internal O-ring. This could contaminate the ink in the syringe. The safest way to ensure the syringe will not contaminate the ink, is to disassemble it and rinse thoroughly with press wash or alcohol prior to use. If this operation is carried out allow the syringe to dry then apply some RN034 over the O-ring to assist in reassembling the syringe.
2. **Screen mesh recommendations.**
   - **a.** Recommended mesh for a Stork Rotary screen unit is a 305, 13% opening. An opening of 11% will not allow the ink to flow through the mesh as freely as the 13% and will require a slower press speed and possibly more squeegee pressure. A higher mesh opening can be used, but may not be necessary.
   - **b.** Recommended meshes for a Gallus Rotary screen unit are KM or KS.
3. **Maintain a high level of ink in the screen.**
   - **a.** With the screen head stopped, the screen head must be filled with as much ink as practical.
   - **b.** As RN034 is silicone free, maintaining a high level of ink in the screen head will help the ink to wet out the mesh. It is recommended to maintain high ink levels throughout an entire print run.
   - **c.** The larger a screen circumference the better the print result. Larger size mesh circumferences will allow more ink to be placed inside the screen and again aid the wetting out of the mesh. We recommend running the largest screen circumference the machine set-up will allow.
4. **Fine-tuning of the squeegee will be required.**
   - **a.** The press operator may have to adjust the amount of pressure on the squeegee. The press operator may also have to adjust the angle of the squeegee. These changes to the pressure and angle of the squeegee will aid the wetting of the mesh, ink flow through the mesh, and transfer of RN034 to the substrate.

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