

Precautions for printing acrylic on UV flatbed machine

When printing acrylic on a UV flatbed machine, if the corresponding coating is not applied to the surface of the acrylic, it may fall off easily, have poor color, and be prone to fading. iMaxcan will briefly introduce what to pay attention to when printing acrylic on a UV flatbed machine.

1. Currently, there are two-component or multi-component acrylic spray coating products on the market, which need to be configured according to the manufacturer's specified ratio before use, which is inconvenient. Compared to multi-component products, single component coatings that do not require configuration have greater advantages in use. Regarding product safety, it is also a necessary consideration when choosing acrylic spray painted coatings.

Solvent based coatings not only have a strong odor, but also pose a safety hazard when stored improperly. Transportation is also inconvenient because of the high investment in acrylic printing. When choosing acrylic printing coatings, safer water-based coatings should be considered. If solvent based coatings must be used, it is recommended to store them separately from acrylic to eliminate safety hazards.

2. As a high value-added decorative product, UV printed products generally have high requirements for appearance, which requires the coating to be colorless and transparent. There are some two-component coatings on the market that are based on epoxy resin and turn yellow, affecting the decorative effect. Another aspect is weather resistance. For UV printed products, especially signs, billboards, and printed materials used outdoors, they must remain bright and new for a long time without fading.

Specifically This requires the coating to have the ability to resist ultraviolet radiation. Some coatings now turn yellow under long-term light conditions and are

not suitable for outdoor use. Even UV printed products that are only used indoors generally need to consider using weather resistance to ensure product quality.

3. There are many methods for adhesion, such as the hundred grid method. If high quality is required for printed products, it is also possible to test whether the image of the printed product falls off after being immersed in water or boiled in water. Adhesion is the key to measuring coatings. High quality coatings should pass the hundred grid test and not peel off after soaking or boiling in water. Attention should also be paid to leveling, which is a common performance indicator in coatings. It refers to the ability of the coating to automatically flow and develop into a flat and smooth surface, such as brush marks and spray mist particles, when applied or sprayed on the surface of an object.

Acrylic UV spray coatings with poor flowability can affect the decorative effect of printed materials. More importantly, if the brush marks on the coating surface do not disappear automatically, the uneven coating surface may rub against the nozzle, causing significant losses. High quality coatings should be formulated tightly and quickly leveled after brushing or spraying.