Handling Guideline for TIGITAL® Products

1. General information

This guideline is intended to ensure the proper, safe, and efficient handling of digital printing inks and related products (e.g., primers, varnishes) from our portfolio.
Please follow all instructions outlined here to maintain consistent product quality and process reliability over the long term.

2. General storage conditions

Please ensure the following storage requirements are consistently met for all our products:

- **Store all ink packaging upright**: Always store ink bottles and canisters in an upright position.
- **Protection from heat and light:** Store the inks away from direct sunlight and radiant heat.
- **Temperature range:** See packaging label.
- **Follow the FIFO principle:** Always use the oldest stock first (First-In, First-Out) to maintain ink quality and shelf life. The shelf life information indicated on the packaging label must be carefully observed consistently. Never use products beyond their expiration date.

3. Material compatibility with packaging materials and printer components

Material category	UV inks	Water-based inks
Compatible	PP	PP
	PE (HD + LD)	PE (HD + LD)
	Stainless steel	Stainless steel
	PTFE	PTFE
	EPDM rubber	
Incompatible	PVC	All materials incompatible with water
	Butyl rubber	
	Brass	
	Viton®	
	Nitrile plastics	
	Polyurethane rubber	
	Neoprene	

The compatibility information set forth in this table is derived from TIGER's experience and testing with selected representative materials within the respective material categories. Nevertheless, TIGER expressly disclaims any warranties, guarantees, or liabilities—whether express or implied—regarding the compatibility of its products with any materials or material categories referenced herein.
It is the sole responsibility of the user to assess and verify the suitability and compatibility of all materials and components that come into contact with the ink prior to use.

Only lint-free, non-abrasive fabrics should be used for all work on print heads or ink-sensitive components. Using unsuitable materials may impair functionality and cause damage.

4. Handling instructions

Please ensure that the following instructions are consistently observed when using our products:

- **Homogenize before use:** All TIGITAL® products must be thoroughly shaken or stirred before dispensing to ensure complete homogenization.
- **Inorganic inks, including Matte Varnishes:** Require meticulous agitation to ensure uniform distribution of all components. The use of an appropriate spinning device is mandatory. A minimum spinning time of 3 hours is required; however, the actual duration may vary depending on the specific spinner and product characteristics. Matte varnishes typically require longer spinning times due to the presence of silica particles.
- **Protect UV inks:** UV inks are sensitive to UV light and should therefore always be protected from light to prevent unwanted reactions.
- **Mandatory:** Filter all products such as primers, inks and varnishes appropriately to remove potential contamination.
- **Curing:** Please refer to the Technical Data Sheet for the recommended power and dose parameters. As these are guidelines that may vary depending on the substrate and process, it is the user's responsibility to individually adjust the dose for the specific printing system.
  A waiting period of at least five minutes must be observed before testing the film properties (e.g., degree of cure, adhesion, hardness) to allow the primary curing process to complete. Please note that post-curing may continue for several days.

5. Transportation instructions

Weekend deliveries should be avoided in conditions of extremely high or low temperatures, as prolonged exposure to heat or cold can affect product quality. Short-term minor deviations above or below the specified storage temperatures are acceptable (<24 hours).
Water-based inks must be protected from freezing (temperature > 0 °C). Even brief exposures below this temperature are not acceptable.
Ensure that all TIGITAL® products are conditioned to room temperature before use.

Note: This guideline does not replace the product-specific data sheets (PDS) and is intended to be used in addition to them.
Please read and observe all information contained in the respective product data sheet carefully.
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