

Technical Specification

WF UV 131 FCM/LED

Cold Transfer Adhesive

("ADHESIVE")

Special adhesive for UV Web Fed Flexo printing machines.

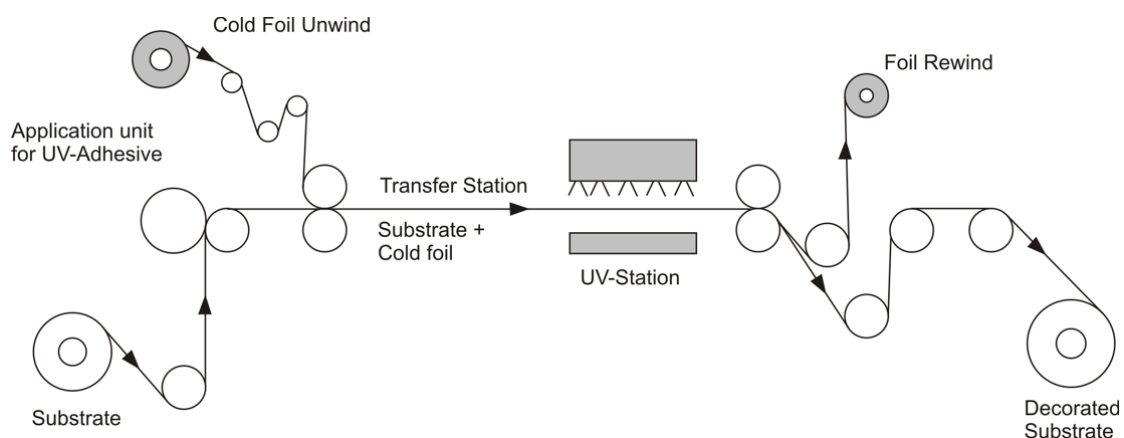
1. Purpose

This Technical Specification shall be conclusive with regard to the herein defined, non-customer specific characteristics and quality of the ADHESIVE. All characteristics and other criteria of the ADHESIVE that are not defined in this Technical Specification are valid only, if expressly set out in our written offer or otherwise confirmed by KURZ in writing. Insofar as such additional characteristics and other criteria may be relevant with regard to specific requirements and use of the customer, these need to be examined and tested by the customer himself under his sole responsibility prior, during and after the application process.

2. Application

First, the UV adhesive is applied onto the substrate. Then, the cold foil is laminated onto the glue before curing. The curing of the adhesive is effected through the cold foil by means of a UV lamp. Finally, the carrier of the cold foil is removed from the substrate.

The following schema illustrates the processing principle of cold foil transfer:



3. Properties

UV-Flexo cold stamping glue LMI is radically curing and was specifically developed for printing on food packaging. It's odour and migration are particularly low. The glue is based on a low viscosity 100 % system free of solvents or water.

With respect to food packaging the ADHESIVE is only permitted for indirect food contact. Subject to that restriction, the ADHESIVE is in general suitable for the following food packaging:

- Smell- and taste-sensitive food
- Solid, paste-like or liquid, greasy or aqueous food

The inks only cure in UV light – means standard UV lamps, but also LED UV. During the standstill of the machines, the ink dries neither in the fountain nor on the rollers or in the printing block. UV-Flexo cold stamping glue LMI can be applied to paper and plastic films like PE, PP, PVC, and OPP as well as aluminium films. The variety of printing substrates makes it necessary to test the adhesion before printing. In order to assess the printing substrate as a migration barrier, please contact your supplier.

Product Features

- Press ready
- Good transfer and cohesive properties
- Wide applicability - formulated for a variety of substrates including self-adhesive paper labels and synthetic labels¹
- Applied via Flexo printing
- Suitable for standard UV lamps and UV LED

¹Note that the application parameters (exact adjustment of the machine) and the type/nature of the used substrates and inks have direct influence on the outcome of the test. Tests using the customer's original substrate, and using the customer's original application parameters are mandatory.

Viscosity Range

200 – 5000 mPas*s

Additives

The addition of any additive might change the overall characteristics of the ADHESIVE.

4. Processing Notes

Depending on the substrate, 3 – 7 g/m² should be applied.

When using very absorbent paper types, a primer should be printed before applying the UV adhesive.

The stamping speed depends upon the UV lamp capacity. In case of lamp capacities of 120 – 200 W/cm, stamping speeds of 40 – 80 m/min can be reached.

To avoid wrinkles, the distances between the application unit, transfer unit, UV lamp and foil release should be as short as possible. The angle of the foil release influences the transfer results. Better results can be achieved in case of flat angles.

KURZ will provide the customer with a Safety Data Sheet (According to 1907/2006/EC, Article 31).

5. Technical Service

Please contact KURZ for the ADHESIVE or other adhesives:

Email: sales@kurz.de

Tel: +49 (0) 911 / 7141 - 0

6. Packaging Units

5 kg plastic can

7. Storage Conditions and Workability

Storage Time:	12 months from the date of delivery – stored in original packing, unopened – note, that upon any opening a curing process can start.
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Storage Temperature:	5 to 30 °C
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Storage place:	no direct sun exposure
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Workability:	12 months from the date of delivery in compliance with the storage conditions – stored in original packing, unopened – note, that upon any opening a curing process can start.
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8. Compliance with the Technical Specification

The Technical Specification determines conclusively the characteristics and the quality of the ADHESIVE. KURZ warrants that the ADHESIVE delivered to the customer shall be in compliance with the respective Technical Specification valid at the time of transfer of risk.

Once the application process has been initiated by the customer, KURZ no longer has control over the conditions to which the ADHESIVE will be exposed (e. g. substrate characteristics, temperature, environment, cleaning conditions). As a consequence, KURZ cannot be held liable for the ADHESIVE once the application process has commenced unless any material defect in the ADHESIVE was in existence at the time of transfer of risk.

The information provided in this Technical Specification shall not constitute any guarantee or commitment with regard to fitness of the ADHESIVE for a special application. This information does not release the customer from his own liability for care examination, in particular with regard to the incoming goods inspection and any fitness of the respective ADHESIVE for his intended use. This especially applies to any further production steps including but not limited to production steps following subsequent to the application of the ADHESIVE and which may have considerable influence on the result of the application process, but which are completely out of the control of KURZ.

To prove that the ADHESIVE does not comply with the Technical Specification and to trace the respective production conditions, the customer must inform KURZ of the batch number affixed to the ADHESIVE delivered to the customer.

9. Issue

This Technical Specification supersedes all previous issues.

10. Intellectual Property Rights

The customer shall have sole responsibility for observing intellectual property rights as well as the legal regulations at the place of use of the ADHESIVE.

11. Modification

This Technical Specification can only be changed by the authorized department of KURZ.