General information on the safety, storage, and processing of RFID/NFC tags

RFID/NFC tags contain electronic components and therefore require careful handling. Please observe the following instructions:

- Avoid storing RFID/NFC tags near electromagnetic fields at all times.
- Do not expose the RFID/NFC tag to high temperatures. Irreversible damage to the chip (IC) can occur above 80°C.
- **Metallic surfaces (also painted, coated or otherwise covered) and direct application to liquid containers negatively influence the function of the RFID/NFC tag. Before mounting, check whether the RFID tag can be read at the desired location.**

For mechanical and technical malfunctions caused by improper handling, such as independent rewinding, retensioning, trimming or or other changes to the design, we shall not be liable.

Transport & Storage

Protect your self-adhesive products from direct sunlight, temperature fluctuations, heat and humidity during transport and storage. A room temperature between 10°C and 20°C is recommended, otherwise the adhesive will leak out at the label edges and further processing will be more difficult. The processing of self-adhesive products within 12 months is recommended. **The goods may only be transported and stored well packed and lying flat (preferably in the outer packaging supplied). Please avoid pressure, impact and weight loads!**

General instructions for mounting

For optimum mounting, the temperature of the surface should be between 15°C and 20°C. A short pressure after application ensures good surface contact. The maximum adhesive bond occurs after approx. **72 hours**. During this period, ensure that the temperature is kept at a constant temperature between **15°C and 20°C** during this period. Mounting over edges or on strongly curved substrates is not recommended.

Instructions for cleaning surfaces

Recommended cleaning depending on degree of soiling and surface:

Detergent	Dust and water soluble impurities	Greases, oils and stubborn impurities
Household cleaner	✖	
Isopropanol	✖	✖
White spirit		✖
Universal thinner		✖

For all smart-TEC products, the surfaces to be bonded must be even, clean, dry and free of grease, oil, dust and other contaminants. Please observe the manufacturer's safety instructions.

Processing recommendations for RFID/NFC labels

Bonding (Adhesion)
- The surface and the smart-LABEL should be at room temperature (approx. 20 °C).
- Repositioning after the first application significantly reduces adhesion.

Automatic Dispensing
- Always test in advance.
- Ensure optimal web tension.
- A sufficiently sharp dispensing edge is required.

Manual Dispensing
- Do not touch the adhesive surface, especially the corners, with skin (skin oils reduce adhesion).
- To remove the label: use a thin, flat, non-sharp tool with a non-stick coating or silicone-coated paper.
- Lift the label as close to the center as possible; do not bend, crease, twist, or fold the label.
- Recommendation: fold back and pull away the liner paper.

Application
- Apply the label and fix it with brief pressure.
- The RFID/NFC chip is raised and sensitive; mechanical stress must be strictly avoided.
- After application, press down edges and corners firmly.

SIMPLIFIED EU DECLARATION OF CONFORMITY

smart-TEC GmbH & Co. KG hereby declares that the following products comply with the requirements of Directive 2014/53/EU.

***smart*-CARD, *smart*-CHROMOTION, *smart*-DOME, *smart*-DOME Ex, *smart*-KEY, *smart*-LABEL, *smart*-PET, *smart*-PLATE, *smart*-WRIST**

The full text of the EU Declaration of Conformity can be found on the following website: www.smart-tec.com/en/our-company/services/downloads

Processing recommendations for RFID/NFC industrial tags and RFID/NFC digital type plates

smart-DOME (Classic / Freestyle / Epoxy), smart-PLATE (LF / HF / NFC / UHF) und smart-CHROMOTION

In general, the same processing instructions apply to the above products as to smart-LABEL. Clean the surface to be glued as described in the Cleaning chapter. Remove the protective paper from the adhesive layer and apply the RFID/NFC tag with a short press. For RFID/NFC tags with a mounting hole, tighten the screw hand-tight. In case of interference, the use of plastic screws is recommended. The surface of aluminum and stainless steel tags is often protected by protective foils, which must be removed before processing.

Certified RFID/NFC transponders according to ATEX (Directive 2014/34/EU, IECEx and UKEX)

Our RFID/NFC tags of the type smart-DOME Freestyle and smart-DOME Classic are tested and approved for use in category 2 hazardous areas.

Special conditions of use according to EU type examination certificate:
The operating instructions, in particular the storage and operating temperatures for ex-protected RFID and NFC transponders, must be observed. Should the case case that the complete marking cannot be applied to the RFID/NFC tags, the marking is carried out, if ATEX is the only required required directive, the marking is alternatively done by attaching the minimum information according to Annex II 1.0.5. and Annex VI 3. of Directive 2014/34/EU:

smart-TEC
sDF WWJJ NNNN*
EPS 15 ATEX 1 1011 X
Ex II 2G CE 2004

*W = calendar week, Y = year, N = item number;
The exact designation varies depending on the product and date of manufacture.

These recommendations are based on our many years of experience and careful testing under standardized conditions and are therefore not generally valid. Deviation from these conditions may lead to different results.

Please note that all information is non-binding and own application tests are recommended in advance. Liability and warranty are governed by our General Terms and Conditions. We will be pleased to advise you competently and individually on all questions regarding application.