

Product Information

TEGO® RC 1403

PRODUCT DESCRIPTION

TEGO® RC 1403 is an UV curable solvent-free epoxy silicone release coating for paper and film. TEGO® RC 1403 is used to provide easy release values.

TYPICAL APPLICATIONS

The cationic curing TEGO® RC 1400 series was developed to complement the radical UV/EB curable TEGO® RC silicone acrylates (RC 700/900 series). In some applications, the requirements for the release coating and the non-availability of inerted UV curing units may suggest the use of cationic curing silicones.

Product Composition

| Product Composition | Unit | Value |
|------------------------|------|-------|
| Active Content | wt% | 100 |
| Volatile Content, max. | wt% | 1 |

The data represents typical values (no product specification)

BENEFITS & ADVANTAGES

- Easy to handle and use
- Inerting not required
- Low temperature impact to substrates
- Low extractables
- Stable release from most PSA's
- Low release values
- Sensitized for faster cure speed

HANDLING & PROCESSING

With the addition of 1 to 3% of the cationic photo catalyst TEGO® PC 1467, TEGO® RC 1403 is ready for UV curing. TEGO® RC 1403 contains the sensitizer ITX, enabling improved cure speed and reliability. This blend has a good adhesion on all substrates. The adhesion to the substrate can be improved by corona pre-treatment. Controlled increase of the release value is possible by adding TEGO® RC 1412. The necessary addition level depends on the individual application. All blends need to be stirred prior to

application. The pot life of TEGO® RC 1400 series silicones with TEGO® PC 1467 added is minimum 72 hours if stored properly (avoid exposure to sunlight and heat). Maximum bath life can be longer but is very dependent on local storage conditions.

Suitability tests

Before using any new silicone formulation, we recommend checking that the final product meets the target requirements. This includes but is not limited to

- Compatibility of release coating against targeted adhesives using aging tests at both low and high temperatures. The influence of electron beam or Gamma irradiation on aging and release, e.g. sterilization
- The influence of secondary UV exposure on release and aging, e.g. when curing UV printing inks on label stock with a clear face stock

Thermal aging or post-irradiation may cause a property change in the final product.

PACKAGING

25 kg (55 lbs.) plastic containers pallet size: 12 x 25 kg = 300 kg 200 kg (440 lbs.) plastic lined steel drums pallet size: 4 x 200 kg = 800 kg 1 000 kg (2 200 lbs.) container

SHELF LIFE

TEGO® RC 1403 should be stored in the dark at temperatures below 30°C (86 °F). Keep oxidizing, acidic or alkaline substances away from TEGO® RC Silicones. The guaranteed shelf life is 24 months, when stored under these conditions and in original sealed containers.

HAZARDOUS SUBSTANCE

Information concerning

- Classification and labelling according to regulations for transport and for dangerous substances
- Protective measures for storage and handling
- Measures in case of accidents and fire
- Toxicity and ecological effects

is given in our material safety data sheets.

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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