

Product Information

TEGO® RC 1002

PRODUCT DESCRIPTION

TEGO® RC 1002 is a solvent-free, UV curing silicone acrylate release coating with reduced penetration into slightly porous paper substrates. It is designed for easy release applications. TEGO® RC 1002 is a Reduced Penetration Silicone (RPS). It is a "ready to use" one component blend including TEGO® Photoinitiator A18.

TYPICAL APPLICATIONS

TEGO® RC 1002 is used for the manufacturing of release coatings with easy release properties for self-adhesive products for instance

- Pressure sensitive adhesive labels
- Self-adhesive tapes
- Hygiene products
- Adhesive transfer products

BENEFITS & ADVANTAGES

TEGO® RC 1002 offers special advantages when used to coat alternative base papers, i. e. those papers not normally used as release liners. Alternative papers are often slightly more porous and thus might have insufficient silicone hold out. With such papers, TEGO® RC 1002 will provide better silicone coverage at low coat weights. In contrast to thermal curing silicones, it has excellent curing and silicone coverage properties on less costly alternative papers such as glossy publishing papers or label face papers. Using such alternative papers as base materials offers opportunities for savings in the production of release liners. TEGO® RC 1002 can be used on both film substrates and standard base papers offering the advantage of a ready to use blend.

HANDLING & PROCESSING

As a ready to use blend, TEGO® RC 1002 can be used as supplied. TEGO® RC 1002 will remain a stable mixture without separating for a few days. However, it will separate on standing for a long time. The entire content of the

drum must be stirred well before removing any material. To facilitate this, extra headspace has been left in the drum.

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 ageing 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 ageing or postirradiation may cause a property change in the final product

Note: This silicone contains particles that can reduce silicone misting as thought in US6511714. Without such particles, RC Silicones do not show silicone misting typically at speeds below 400 to 500 m/min. If TEGO® RC 1002 is coated at higher line speeds, US6511714 must be considered.

PACKAGING

20 kg (44 lbs) in PE open-head drum 30 l

Pallet size: 8 x 20 kg : 160 kg

175 kg (385 lbs) in steel open-head drum 200 l

Pallet size: 4 x 175 kg : 700 kg

STORAGE

The bath life of TEGO® RC 1002 blends including can be as long as the storage stability if it is handled properly. We highly recommend stirring the blend before use and testing the material again.

SHELF LIFE

It is recommended that TEGO® RC 1002 is stored in the dark, at temperatures not exceeding 30°C (86 °F). Under these conditions, the storage stability of TEGO® RC 1002 is 12 months (subject to storage in original, sealed containers). The bath life of TEGO® RC 1002 can be as long as the

storage stability if it is handled properly. Please stir and test before using the material again.

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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