

Product Information

TEGO® RC 722

PRODUCT DESCRIPTION

TEGO® RC 722 is a solvent-free, silicone acrylate release coating for paper or film. TEGO® RC 722 is used as an anchorage component in combination with other TEGO® RC Silicones, especially with TEGO® RC 922 or TEGO® RC 902.

UV curing of TEGO® RC 902 requires inerting by nitrogen (< 50 ppm residual oxygen in the curing chamber).

Typical Properties

Property	Unit	Value
Activity	%	100
Appearance		clear to slightly turbid
Volatile Content, max.	wt%	1
Color		colorless, grey, yellow
Flash Point, min. DIN EN 22719	°C	101
Specific Gravity at 25°C DIN 51757	g/ml	1.0
Viscosity at 25 °C DIN 53015	mPa·s	~350

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

TEGO® RC 722 is used for the manufacturing of release coatings for self-adhesive products for instance

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

BENEFITS & ADVANTAGES

Mixtures of TEGO® RC 722 with TEGO® RC 922 or TEGO® RC 902 show excellent anchorage to paper and plastic film substrates.

In addition, the scratch resistance is improved in some cases.

The influence of TEGO® RC 722 to the release characteristics of TEGO® RC 922 or TEGO® RC 902 is negligible.

This offers especially in combination with TEGO® RC 922 the possibility to manufacture premium release silicone coatings with good long-term stability of the release properties.

DOSAGE

TEGO® RC 722 is mainly utilized for UV curing (after adding a suitable photoinitiator). To guarantee good anchorage to the substrate surface, an addition level of 15% to 40% of TEGO® RC 722 is recommended. With this addition level, the release property of the easy release components-TEGO® RC 922 or TEGO® RC 902-remains (almost) unchanged.

The required amount depends on the adhesive being used. The viscosity of TEGO® RC 902 can be reduced by applying it at elevated temperatures.

Blends of TEGO® RC 722 and other TEGO® RC products will only remain stable for a limited time and will separate on standing. Therefore, it is important to stir after blending and during the coating process.

TEGO® RC 722 is covered by an international patent application of Evonik Industries AG.

HANDLING & PROCESSING

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

PACKAGING

25 kg (55 lbs) in PE canister 30 l

Pallet size: 12 x 25 kg = 300 kg

200 kg (440 lbs) steel tight-head drum 200 l

Pallet size: 4 x 200 kg = 800 kg

1000 kg (2 200 lbs) in PE IBC 1000 l

SHELF LIFE

TEGO® RC 722 should be stored in the dark at temperatures not exceeding 30°C (86 °F). Under these conditions, the storage stability of TEGO® RC 722 is 24 months subject to storage 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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