

Product Specification

TEGO® RC 722

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.

Physical properties

		Remarks
Release properties		Mainly used as anchorage additive in combination with other TEGO® RC Silicones.
Active matter	100 %	Volatile content < 1 %
Viscosity, 25 °C (77 °F)	~ 350 mPas	
Specific gravity, 25 °C (77 °F)	approx. 1 g/cm ³	-
Colour	colourless, grey, yellow	The colour of our TEGO® RC Silicones is absolutely irrelevant as to their efficiency/properties, as guaranteed by our test certificate.
Appearance	clear to slightly turbid	-
Flash point (DIN 51758)	> 100 °C (> 212 °F)	-
Guaranteed pot life (with photoinitiator included)	min. 72 h	RC Silicone blends with photoinitiator added must be stored in the dark at temperatures not exceeding 30 °C (86 °F). Under these conditions, the pot life can reach 12 months. Please stir and test before using the material again.
Inerting	necessary	UV curing requires inerting by nitrogen to < 50 ppm residual oxygen in the curing chamber.

Application fields

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

- Self-adhesive labels
- Self-adhesive tapes
- Hygiene products
- and many more

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/Handling

Mixtures of TEGO® RC 722 are cured by ultraviolet radiation. UV curing requires the addition of a suitable photoinitiator. We recommend the addition of 2 % TEGO® Photoinitiator A18.

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.

Blends of TEGO® RC 722 with TEGO® RC 922 or TEGO® RC 902 stand out for excellent anchorage on paper and film substrates. Sometimes even scratch resistance can be improved.

Organic anchorage components are mostly obsolete. Only for special substrates, like PVC or metallized surfaces, the addition of a phosphoric acid acrylate can further improve anchorage. As the addition of an additional anchorage promoter can influence the release properties and pot life, diligent pre-evaluations need to be conducted.

Blends of TEGO® RC 722 with TEGO® RC Silicones need to be agitated well until they appear homogeneous. Blends may separate on standing, thus stirring is necessary prior to application.

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

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.

Storage stability

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.

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

1 000 kg (2,200 lbs) container

Hazardous goods classification

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.

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