Technical Information

TEGO® RC 922

TEGO® RC 922 is a solvent-free silicone acrylate for paper and film release coatings.

This product is used to achieve easy release properties.

Physical properties

		Remarks
Release properties	premium/easy	–
Active matter	100 %	Volatile content < 1 %
Viscosity, 25 °C (77 °F)	~ 950 mPas	The viscosity of TEGO® RC 922 can be reduced considerably by "warm" application
Specific gravity, 25 °C (77 °F)	approx. 1 g/cm³	–
Colour	amber	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 922 is primarily used for UV curing (after addition of a suitable photoinitiator).

TEGO® RC 922 exhibits excellent release characteristics, even with aggressive self-cross-linking adhesives and adhesives with low cohesion strength (e. g. bitumen).

Dosage/Handling

TEGO® RC 922 can be used as an additive to TEGO® RC 902 and TEGO® RC 711 blends. A typical addition level is 20%. Such formulations provide a premium release against normal PSAs.

TEGO® RC 922 can be used alone with TEGO® RC 711 to provide good release against adhesives with low cohesion strength.

Generally, in order to achieve good adhesion on all substrates, the addition of 30 % TEGO® RC 711 is recommended. This dosage has no impact on the premium/easy release value.

If higher proportions of TEGO® RC 711 are employed, controlled increase in the release value is possible. The required proportion of TEGO® RC 711 is determined by the adhesive used.

We recommend to stir the product before use and to use the outlet at the bottom, if available. If combined with other TEGO® RC Silicones, stirring is also necessary prior to application.

Suitability tests

Before using any new silicone formulation, we recommended 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 post-irradiation may cause a property change in the final product.

Storage stability

It is recommended that TEGO® RC 922 is stored in the dark at temperatures not exceeding 30 °C (86 °F).

Under these conditions, the storage stability of TEGO® RC 922 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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Evonik Nutrition & Care GmbH
Goldschmidtstr. 100, 45127 Essen, Germany
Phone Europe +49 201 173-2665, Asia +86 21 61191 125, Americas +1 804 727 0700
interface-performance@evonik.com, www.evonik.com/interface-performance