

# TEGO® RC 1717

## Product description

TEGO® RC 1717 is designed for use for thermal papers in linerless applications. As a 100 % solvent-free blend of

specialty acrylates it is used in combination with TEGO® RC 902 and TEGO® Photoinitiator A18 in an UV initiated radical curing process.

## Physical properties

		Remarks
Release properties	easy release	In combination with TEGO® RC 902
Active matter	100 %	volatile content < 1 %
Viscosity, 25 °C (77 °C)	approx. 700 mPas	-
Specific gravity, 25 °C (77 °F)	approx. 1.1 g/cm <sup>3</sup>	-
Appearance	clear, slightly amber	-
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 1717 is used for release coating of thermal labels that are self-wound without the use of a separate release liner. TEGO® RC 1717 is used as an important component in blends for the release coating that is applied on top of the linerless label.

TEGO® RC 1717 was especially developed for the use with RC products for the coating of thermal sensitive papers, which are used in linerless

applications. It stands for the right release properties (in combination with TEGO® RC 902 and TEGO® Photoinitiator A18) and gives an excellent compatibility with the pressure sensitive adhesive of the linerless label.

The release coating composed of TEGO® RC 1717, TEGO® RC 902 and TEGO® Photoinitiator A18 provides a top coating with excellent barrier functionality and release properties. It also provides a good cross-linking and anchorage functionality.

## Dosage/Handling

The standard formulation is 48 % TEGO® RC 1717, 50 % TEGO® RC 902 and 2 % of TEGO® Photo-initiator A18. Good stirring is necessary prior to application. The blend remains stable without separation for a limited period of time.

To avoid problems with separation, however, continuous agitation in the holding tank is recommended.

The bath life of blended material can be very long if it is handled properly. For the next shift agitation prior to use is necessary again. We recommend to carefully test such material prior to production.

In-line corona treatment of the substrate prior to silicone coating should be applied to get best silicone anchorage results.

TEGO® RC 1717 is covered by a patent application of Evonik.

## 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.

Thermal ageing may cause a property change in the final product.

## Storage stability

It is recommended that TEGO® RC 1717 is stored in the dark at temperatures not exceeding 30 °C (86 °F).

Under these conditions the storage stability of TEGO® RC 1717 is 12 months subject to storage in original, sealed containers.

## Packaging

25 kg (44 lbs.) plastic drums  
Pallet size: 12 x 25 kg = 300 kg

200 kg (385 lbs) plastic lined steel drums  
Pallet size: 4 x 200 kg = 800 kg

## 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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## Trademark notice and legal notice

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