

# TEGO® RC 711

TEGO® RC 711 is a solvent-free silicone acrylate for paper and film release coatings. TEGO® RC 711 is used in combination with other

TEGO® RC Silicones as an **adhesion promoter** as well as to control the relevant release levels.

## Physical properties

		Remarks
Release properties	tight	Mainly used as anchorage additive
Active matter	100 %	Volatile content < 1 %
Viscosity, 25 °C (77 °F)	~ 600 mPas	
Specific gravity, 25 °C (77 °F)	approx. 1 g/cm <sup>3</sup>	-
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	-
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

When used on its own, TEGO® RC 711 yields release coatings with high release values.

TEGO® RC 711 mainly serves as an anchorage additive for all mixtures with TEGO® RC Silicones with easy or controlled release values and is used for the manufacturing of release coatings for self-adhesive products,

Like e.g.:

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

## Advantages

TEGO® RC 711 shows excellent ageing characteristics even with self-cross-linking adhesives.

Combined with other TEGO® RC Silicones, namely those of the "easy" and "controlled" release types, TEGO® RC 711 works as an anchorage provider and enables the controlled increase of the relevant release properties.

## Dosage/Handling

TEGO® RC 711 may be cured by either electron beam or ultraviolet radiation (UV curing requires the addition of a suitable photoinitiator).

To guarantee a good anchorage on the relevant substrate surface, an addition level of min. 30 % of TEGO® RC 711 is added without interfering with the relevant easy or controlled release properties.

Higher levels (more than 30 % TEGO® RC 711) will allow the controlled increase of the release values. The recommended dosage is dependent on the type of adhesive used.

When used in combination with other TEGO® RC Silicones, stirring is 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 711 is stored in the dark at temperatures not exceeding 30 °C (86 °F).

Under these conditions the storage stability of TEGO® RC 711 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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## Trademark notice and legal notice

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