

Product Specification

TEGO® RC 702

Product description

TEGO® RC 702 is a solvent-free, UV curing silicone acrylate release coating for easy release applications.

Physical properties

Active matter	100 %
Volatile content	< 1 %
Viscosity, 25 °C (77 °F)	~ 650 mPas
Specific gravity, 25 °C (77 °F)	~ 1 g/cm ³
Colour	Beige
Appearance	Slightly opaque
Flash point (DIN 51758)	> 100 °C (> 212 °F)

TEGO® RC 702 is a “ready-to-use” one-component blend with TEGO® Photoinitiator A 18 (2 %).

UV curing of TEGO® RC 702 requires inerting by nitrogen (< 50 ppm residual oxygen in the curing chamber).

Application fields

TEGO® RC 702 is used in the manufacturing of release coatings with easy release properties. For example:

- Self-adhesive labels
- Self-adhesive tapes
- Hygiene products
- Many others

Advantages

TEGO® RC 702 is easy to use, requiring no blending or mixing. TEGO® RC 702 can be used on both film substrates and standard base papers.

Dosage/Handling

TEGO® RC 702 provides good anchorage to many substrates i.e. plastic films and papers. There is no addition of TEGO® RC 711 necessary. TEGO® RC 702 will remain a stable mixture. There is no separation on standing. No agitation prior to use is necessary.

Organic acrylates can be added to improve anchorage to difficult substrates. By adding 10 % TMPTA (Trimethylolpropanetriacrylate) the anchorage will improve. Please test blend stability and release properties carefully when using organic acrylates in RC 702.

Controlled increase of the release value is possible by adding TEGO® RC 800 together with RC 711. The necessary addition level depends on the individual application. All blends with controlled release additives need to be stirred prior to application.

The bath life of TEGO® RC 702 can be as long as the storage stability if it is handled properly.

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

It is recommended that TEGO® RC 702 is stored in the dark, at temperatures not exceeding 30 °C (86 °F).

Under these conditions, the storage stability of TEGO® RC 702 is 12 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 kg

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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