

Product Specification

TEGO® RC 715

TEGO® RC 715 715 is a solvent-free silicone acrylate for paper and film release coatings. This product is complementary to our standard system

and is used to provide easy to controlled release values.

Physical properties

		Remarks
Release properties	easy/controlled	-
Active matter	100 %	Volatile content < 1 %
Viscosity, 25 °C (77 °F)	~ 135 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	-
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 715 is used for the manufacturing of release coatings with easy to controlled release properties for self-adhesive products, like e. g.:

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

Advantages

TEGO® RC 715 offers the ability to control release values, especially in the easy to controlled release range.

Dosage/Handling

TEGO® RC 715 may be cured by either electron beam or ultraviolet radiation (UV curing requires the addition of a suitable photoinitiator).

Controlled release values are obtained from blends of TEGO® RC 715 and RC 711. The exact ratio is determined by the choice of adhesive.

When combined 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 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 715 is stored in the dark at temperatures not exceeding 30 °C (86 °F).

Under these conditions, the storage stability of TEGO® RC 715 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.

08/2019

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

Evonik Nutrition & Care GmbH
Goldschmidtstraße 100
45127 Essen, Germany
Phone Europe +49 201 173 2665
Phone Asia +86 21 61191 125
Phone Americas +1 804 727 0700
interface-performance@evonik.com
www.evonik.com/Interface-performance

