

Product Information

TEGO® RC 1904

PRODUCT DESCRIPTION

TEGO® RC 1904 is a solvent-free, UV curing silicone acrylate release coating with premium release properties when used with a variety of industry-standard pressure sensitive adhesives. TEGO® RC 1904 is a "ready to use" one component blend with TEGO® Photoinitiator A 18.

Typical Properties

Property	Unit	Value
Activity	%	100
Appearance		opaque
Color		beige
Density DIN 51757	g/cm ³	1.017-1.027
Flash Point, min. DIN EN 22719	°C	144
Viscosity DIN 53015 at 25°C	mPa·s	250-500

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

TEGO® RC 1904 is used in the manufacturing of release coatings with premium release properties for self-adhesive products, like e.g.

- High speed auto-apply and hand apply applications
- Hygiene applications with easy release requirements

BENEFITS & ADVANTAGES

- TEGO® RC 1904 is easy to use as it is premixed in the right ratio incl. Photoinitiator TEGO® A 18
- It can be used on both film substrates and standard base papers
- It has an efficient anchorage component added that ensures good keying to all common substrates
- The low viscosity allows coating with most printing technologies and common silicone coaters
- The viscosity of TEGO® RC 1904 can be reduced considerably by "warm" application at 40°C to 60°C

HANDLING & PROCESSING

As a ready to use blend, TEGO® RC 1904 can be used as supplied. Addition of TEGO® RC 711 or TEGO® RC 722 is not necessary. TEGO® RC 1904 provides good anchorage to many substrates i. e. plastic films and papers.

TEGO® RC 1904 will remain a stable mixture for many hours. However, it will separate on standing for a long time. **The entire content of the drum or pail must be stirred well before removing any material.** To facilitate this, extra headspace has been left in the drum.

To avoid separation in the holding tank next to the coating line a stirrer with moderate revolution should be equipped. After a break the agitation prior to use is necessary.

UV curing requires inerting by nitrogen to < 50 ppm residual oxygen in curing chamber.

TEGO® RC 1904 is covered by an international patent application of Evonik Industries AG.

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.

PACKAGING

20 kg in PE open-head drum 30 l

16 kg in PP pale 5 GAL - 18,9 l (Americas)

175 kg (385 lbs) in steel open-head drum 200 l

Pallet size: 4 x 175 kg = 700 kg

800 kg (1 764 lbs) in PE IBC 1000 l

SHELF LIFE

12 Months. It is recommended that TEGO® RC 1904 is stored in the dark, at temperatures not exceeding 30°C (86 °F). Under these conditions, the storage stability of TEGO® RC 1904 is 12 months (subject to storage in original, sealed containers).

HAZARDOUS SUBSTANCE

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.

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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