

TAILORED CROSS-LINKABLE PERFORMANCE

TEGO® Rad 2550

New radically cross-linkable defoaming glide additive for radiation-curing inks, overprint varnishes and wood coatings



Additives for RC formulations

Radiation-curing inks and coatings enjoy high growth rates for many good reasons, including: fast cure, low energy consumption, absence of solvents and excellent chemical and mechanical resistance.

To fully display their excellent performance, radiation-curing formulations require the support of highly effective additives. Siloxane-based chemistries are most frequently used to enable and enhance substrate wetting, flow, levelling, slip and release. Evonik Coating Additives has a comprehensive portfolio available to address these effects for RC inks and coatings.

To minimize migration, and achieve very pronounced and long lasting effects, acrylated products are the industry's first choice. Evonik's unique range of TEGO® Rad silicone acrylates offer formulators a complete toolbox of solutions to ensure top ink and coating performance.

Tailored to different needs, these cross-linkable products differ in composition and effect. Some provide wetting and flow with hardly any slip (TEGO® Rad 2100), others offer both wetting and slip (TEGO® Rad 2250) while others focus on extreme release properties (TEGO® Rad 2700).

Model structure TEGO® Rad



- ① Dimethylsiloxane backbone
- ② Organic modification
- ③ Reactive acrylate group



Click or scan the QR-code for more information!



The latest addition to our line of tailored silicone acrylates TEGO® Rad 2550

TEGO® Rad 2550 is a clear, low viscosity liquid which efficiently reduces static and dynamic surface tension e.g. in UV jet inks. It prevents and eliminates foam, creates highly scratch-resistant, low COF hydrophobic surfaces.

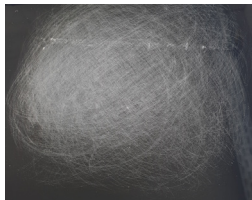
TEGO® Rad 2550

- Very strong slip and scratch resistance
- Defoaming
- Release
- Hydrophobicity
- For traditional UV as well as UV-LED curing

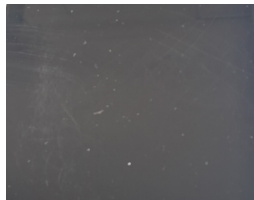
TEGO® Rad 2550 works equally well in traditional as well as LED-cured formulations. The unique property profile, makes it ideal for mat varnishes and pigmented inks. It is highly suitable for wood coating applications, especially with respect on scratch and abrasion resistance.

If you are looking for even more powerful surface modification (e.g. extreme release), we recommend a TEGO® Rad with a higher number, such as TEGO® Rad 2700. For higher solubility and substrate wetting, please try a TEGO® Rad with a lower number, such as TEGO® Rad 2250 or 2300.

Tailored cross-linkable performance – TEGO® Rad.



Blank



0.5% TEGO® Rad 2550

Test description

- Mini Martindale Tester
- UV-coating based on Ebecryl® 5129
- Application with a wire bar (12 µm)
- UV crosslinking

Excellent defoaming of UV screen ink

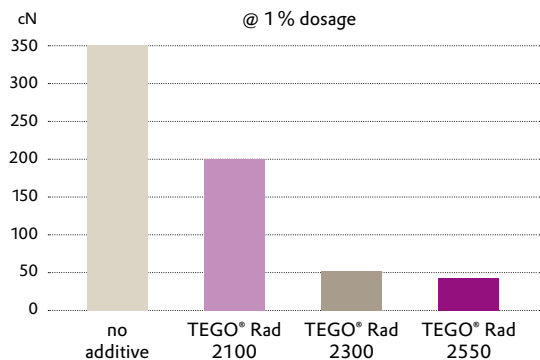


Blank/control



0.3%
TEGO® Rad 2550

Slip resistance against 500 g weight in UV LED jet ink



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, NONINFRINGEMENT, 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. ACEMATT®, ADDID®, AEROSIL®, AIRASE®, ALBIDUR®, CARBOWET®, DYNOL®, NANOCRYL®, SILIKOFTAL®, SILIKOPHEN®, SILIKOPON®, SILIKOPUR®, SILIKOTOP®, SIPERNAT®, SPHERILEX®, SURFYNOL®, TEGO®, TEGOMER® and ZETASPERSE® are registered trademarks of Evonik Industries or its subsidiaries. Evonik supports you in selecting the best suited product and optimizing current formulations through our Application Technology Group.

EVONIK OPERATIONS GMBH
Goldschmidtstraße 100
45127 Essen
Germany
Phone +49 201 173-2222
coating-additives@evonik.com
www.coating-additives.com