

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



**i** Click here 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.

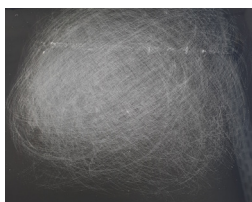
### TEGO® Rad 2550

- 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

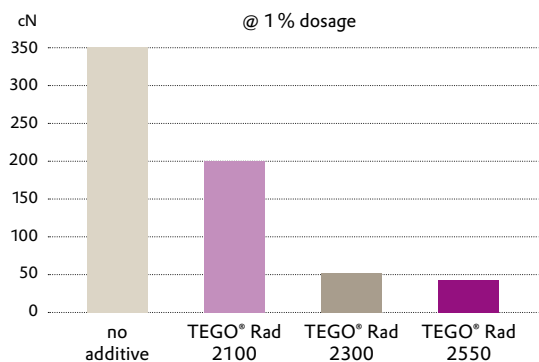


Blank/control



0.3%  
TEGO® Rad 2550

### Slip resistance against 500 g weight in UV LED jet ink



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