

TEGO® Flow 404 a Surface Control Additive for Flow and Leveling in Floor Coatings



Surface Control Additive – TEGO® Flow 404

Surface control additives are used for improving flow and leveling properties in the finished coating along with optical appearance. However, many of these additives will also provide an increase in slip. TEGO® Flow 404 was created to provide all the same effects except the increase in slip.

KEY PROPERTIES

- 100% active liquid additive
- Optimized for resinous floor coating
- Suitable in all system types

BENEFITS

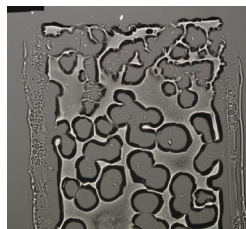
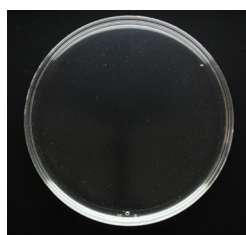
- Great compatibility with defoamers
- Excellent system compatibility for high clarity
- Interfacial tension control (anti-crater, leveling)
- High efficiency with broad compatibility range
- Designed for minimal impact on slip and re-coatability

TEGO® Flow 404 in 100% Solids Clear Epoxy Formulation Based on ANCAMINE® 2726

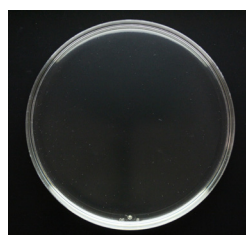
TEGO® Flow 404 is engineered to provide excellent defect control and wetting properties without compromising the efficacy of defoamers. In contrast, industry benchmarks often reveal issues such as edge retraction and poor compatibility with defoamers, leading to a decrease in defoamer performance.

- Top images are cast pucks to highlight micro/macro-foam
- Bottom images are of 5 mil drawdowns on glass to show defects and wetting

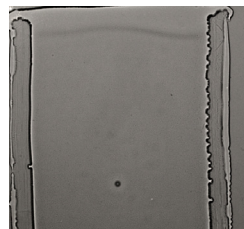
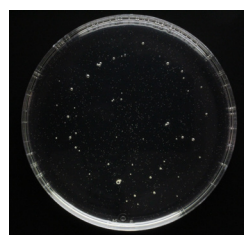
Clear Epoxy with only
TEGO® Airex 922



Clear Epoxy with
TEGO® Airex 922 and
TEGO® Flow 404



Clear Epoxy with
TEGO® Airex 922 and
Industry Benchmark



Click or scan the QR-code
for more information!

Evonik Coating Additives presents a comprehensive range of surface control additives, with TEGO® Flow 404 being a standout innovation designed to enhance flow and leveling without compromising the coefficient of friction.

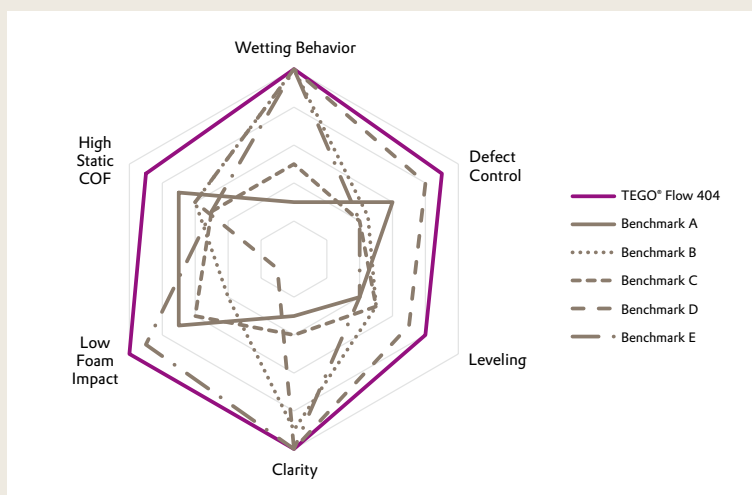
Through proprietary organic modifications, we have achieved a finely tuned balance of performance properties. This optimal performance ensures that TEGO® Flow 404 delivers significant benefits to the system while minimizing any potential side effects.

TEGO® Flow 404 leverages the strong utility of siloxanes with a proprietary organic modification to provide balanced performance while also providing the least impact on coefficient of friction. This 100% active organo-modified siloxane additive is compatible with a variety of system chemistries and has a broad use level range. The high compatibility allows for high clarity in clearcoats while maintaining efficacy in pigmented systems.

Comparison of Various Properties with Different Flow and Leveling Additives

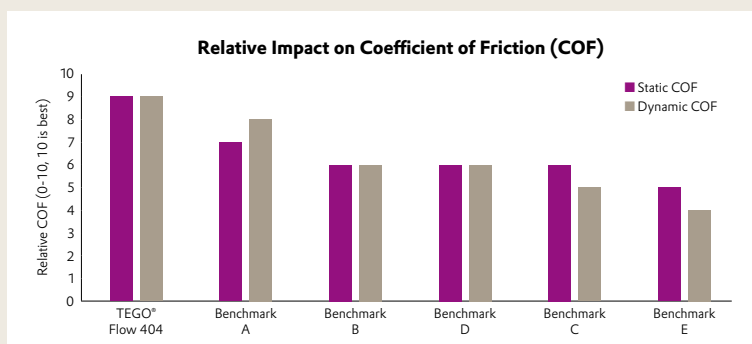
TEGO® Flow 404 offers a more balanced performance compared to leading industry benchmarks.

- Outstanding wetting of substrates
- Strong control of defects like craters and orange peel
- Excellent leveling for mirror-like finish
- High clarity showing no haziness in clear coats
- Shows minimal to no impact on defoamer efficacy
- Little to no impact on Coefficient of Friction (COF)/slip



Impact on Coefficient of Friction (COF) with Various Additives and Leveling Additives

The impact on the COF was tested in two different methods for both static and dynamic, the static was performed using a sliding weight while the dynamic was obtained through use of a FORCEBOARD™. Due to nature of the methods having different units, the measurements for each method were normalized to a 1–10 scaling where 10 was the blank at the original COF level and the additives were positioned according to the normalized values.



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