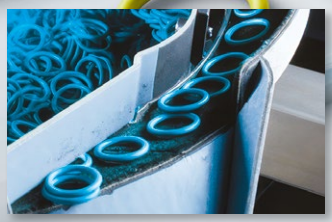
FlexCoat™ NG

HIGH-PERFORMANCE PFAS-FREE* COATING LOWERS FRICTION AND STICKINESS OF ELASTOMER SEALS



PFAS FREE*

FlexCoat™ NG is a PFAS-free* coating that lowers friction in light dynamic applications and counters the inherent stickiness of elastomer seals in assembly. Anticipating forthcoming regulations, it future-proofs product designs.

Inherently, elastomer seals are sticky and tend to adhere to one another. A common way to solve this issue is to coat seals to lower friction and prevent sticking in dynamic situations and assembly. This significantly increases seal life and the performance of equipment.

As pressure mounts to reduce the use of PFAS, in particular flourosurfactants, due to health and environmental contamination concerns, Trelleborg Sealing Solutions already offers FlexCoat™ NG to future-proof its customers' product designs.

FlexCoat™ NG, a lacquer-based dry coating, provides a viable alternative to polytetrafluoroethylene (PTFE) based coatings. Proven in tests to be fully comparable, it demonstrates a significant lowering of friction.

PFAS FREE*

PFAS chemicals

Per- and polyfluoroalkyl substances (PFAS) are synthetic chemical compounds used in a large variety of products. There are health and environmental concerns about many PFAS, in particular fluorosurfacants, because they do not break down via natural processes and are commonly described as persistent organic pollutants. Regulations of PFAS already exist globally and are likely to become more widespread and stringent in the future.

Features and Benefits

- Lacquer-based and PFAS-free* high-performance dry coating
- Reduces friction during assembly and separation of seals
- Significantly reduces friction force
- Ideal to permanently reduce friction in challenging assembly applications
- Superior flexible and durable surface quality shows no breakouts or leakage paths
- Good adhesion to a wide variety of compounds
- Operating temperature of -40 °C to +200 °C/-40 °F to +392°F
- Color options available for easier part identification
- Transparent option
- UV-indicators for easier inspection

*PFAS are not intentional ingredients in FlexCoat™ NG. To the best of our knowledge and based on available information, this coating does not contain PFAS. However, it cannot be guaranteed that it may not contain trace amounts of PFAS that occur unintentionally.

CONTACT YOUR CUSTOMER SOLUTION CENTER

Do you need PFAS-free solutions for your equipment?

Reach out to your local Customer Solution Center for support with your specific requirements.

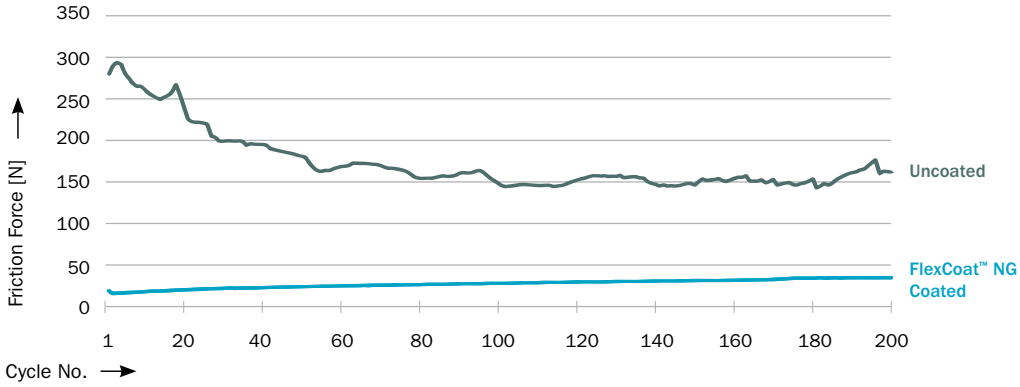
www.trelleborg.com/en/seals/contact-form

PROVEN PERFORMANCE

Using extensive in-house facilities, Trelleborg Sealing Solutions experts conduct tests to demonstrate the performance of FlexCoat™ NG.

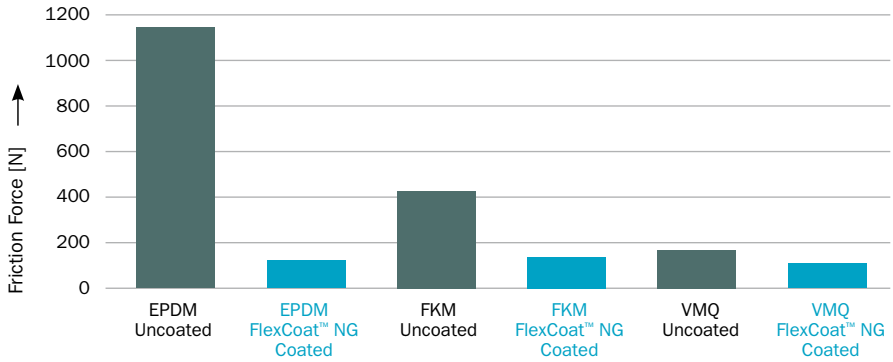
Performance comaprison with Ethylene Propylene Diene Rubber (EPDM) materials

Endurance tests show a significant reduction in friction, not only during assembly but also over time.



Assembly Force Test

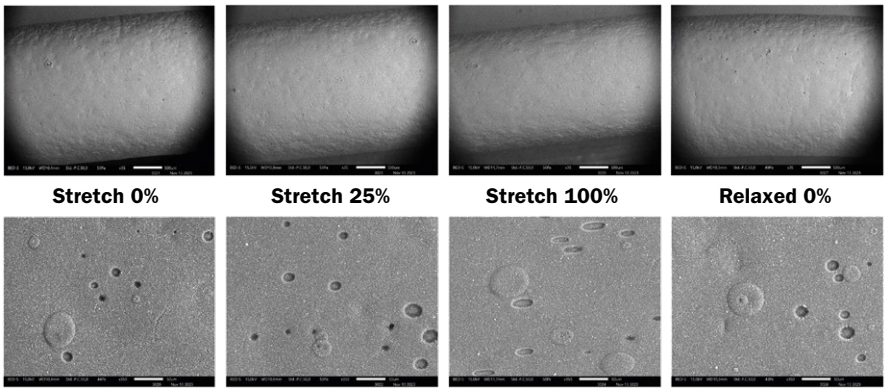
Comparison of uncoated and coated elastomer materials



In endurance and assembly force tests, FlexCoat™ NG gave superior performance results.

Stretch and relaxation of colored FlexCoat™ NG

This test simulates the assembly of the part and evaluates the coating both during and after stretching and relaxation.



35x magnification of O-Ring surface

350x magnification of O-Ring surface

FlexCoat™ NG is a flexible coating. Typically, stretching results in numerous cracks in the coating, which can cause micro-leakage. However, with FlexCoat™ NG, no cracks, breakouts or leakage paths are present.

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Version no: 9900227GBGT1124