

DryFilm AS/DryFilm AS-T

Anti-Squeak Coatings

Product Information

Product Description

DryFilm AS and AS-T are aqueous fluoropolymer dispersions developed to provide a solid, non-visible, anti-friction coating on plastics, elastomers, glass, leather, and metals. Specifically, these products help to eliminate noise occurring when materials are rubbing against each other. Thanks to their chemistry and unique particle morphology, DryFilm AS and AS-T provide the following benefits:

- Transparency
- Extremely low static and dynamic friction
- Elimination of stick-slip and squeak noise
- Functional in temperatures ranging from -60 to 200 °C (-76 to 392 °F)
- Chemically inert—does not swell or discolor the substrate
- Forms homogeneous coating using standard brushing, dipping, or spraying techniques
- Water-based, solvent-free
- Dry coating, does not attract dust and dirt
- Very stable with long shelf life if stored correctly
- DryFilm AS-T contains UV-tracer to facilitate quality controls

Typical Applications

Coating to eliminate stick-slip and squeak noise in:

- Automotive interiors, such as instrument panel, door panels, seating, center console, armrests, glove compartment, fasteners, and clips
- Furniture, such as office chairs, lamp mechanisms, cupboards, and drawers
- White goods, such as dishwashers, washing machines, and dryers

Apart from providing anti-squeak properties, DryFilm AS and AS-T can also be used in other applications where low-friction, anti-stick properties and transparency are desired, such as:

- Assembly aid with the benefits of inertness and broad temperature range
- Release coating in thermoplastic, thermoset, and elastomer molding processes

Properties of Dried Coating of DryFilm AS and AS-T

Color	Transparent
Lower Temperature Use	-60 °C (-76 °F)
Upper Temperature Use	200 °C (392 °F)
Reduction of Friction, Static*	40–60%
Reduction of Friction, Dynamic*	40–60%

* Tested using Zins Ziegler SSP-04 test bench at 23 °C (73 °F), a speed of 1–4 mm/sec (0.04–0.16 in/sec), a force of 10–40 N and with PC-ABS versus PVC

Handling and Use

DryFilm AS and AS-T dispersions should be mildly agitated prior to use. Surfaces to be coated must be cleaned and degreased prior to application of DryFilm AS and AS-T. The application can be done by standard methods, such as dipping, spraying, and brushing. Generally, a quantity of around 5–15 g/m² (0.15–0.45 oz/yd²) of DryFilm AS and AS-T are sufficient to obtain complete noise elimination. After application, the coating is functional once the water has dried off. Drying can be done at temperatures ranging from ambient up to 200 °C (392 °F). No additional curing is needed, but temperatures up to 350 °C (662 °F) can be applied.

Properties of DryFilm AS and AS-T

Density	1.1 g/cm ³ (68.7 lb/ft ³)
Freezing Point	0 °C (32 °F)
Boiling Point	100 °C (212 °F)
pH	10
Brookfield Viscosity	5 MPa·sec
Drying Time at 23 °C (73 °F)	8 min
Drying Time at 60 °C (140 °F)	2 min

Shelf Life and Storage

DryFilm AS and AS-T dispersions are extremely stable with a shelf life of at least 2 years if stored properly. The dispersion must be protected from freezing, which will cause irreversible settling. Prolonged storage at temperatures above 40 °C (104 °F) should also be avoided. The optimal storage temperature range from 5 to 30 °C (41 to 86 °F).

Food Contact Compliance

DryFilm AS and AS-T are not approved for food contact applications.

Packaging

DryFilm AS and AS-T are available in 5- and 20-kg (11- and 44-lb) HDPE containers.

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