

## TECHNICAL DATA SHEET

### AC 612/21

#### Antifriction Coating / Dry Film Lubricant

#### Description

AC 612/21 is a water-based, low-viscosity liquid dispersion. Upon application, it air-dries and then air-cures (cross-links) over time to form an almost invisible, non-migrating, water-resistant semi-continuous coating or strongly-adhering dry film lubricant, depending on the composition and flexibility of the surface. A popular, multi-purpose product. Also available formulated with a UV tracer.

#### Applications

Ideal for application to visible, flexible, elastic surfaces such as leather, artificial leather, vinyl, or soft plastics. A classic application is leather seating upholstery rubbing against itself or against hard plastic. If applied very thinly, e.g. with a sponge or cloth, it will be effective yet invisible on vinyl and leather, even dark leather - a difficult challenge! AC 612/21 is also proven to be suitable for headrest stem/post lubrication and is useful as a problem source identifier. Sometimes use as an assembly aid. Please refer to the LIP Product Selection Guide.

#### Properties

| Property                            | Typical Value     | Conditions                          |
|-------------------------------------|-------------------|-------------------------------------|
| Product Form                        | Liquid dispersion |                                     |
| Solids                              | 21%               |                                     |
| Apparent Viscosity                  | 14cP              | 25°C and 30 sec <sup>-1</sup>       |
| Appearance before application       | Milky white       |                                     |
| Density (20°C)                      | 1.00g/ml          | ASTM D-1217                         |
| Time to Air Dry, thin film          | 5-20mins*         | 25°C                                |
| Time to Full Cure, thin film        | 24-48hrs*         | 25°C                                |
| Cured Film Service Temp Range       | -40 to 125°C      |                                     |
| Shelf Life from Date of Manufacture | 1 year            | Unopened, stored between 8 and 30°C |

\* Drying times can vary depending on ambient temperature and humidity

#### How To Use

AC 612/21 should be shaken or stirred before use, then thinly applied by spraying, brushing or rolling-on to create a thin film that air-dries within 5-20 minutes. If too heavily applied, a wipe with a dry cloth will leave a thin, effective, yet invisible coating. Over-applied product can be removed by immediately wiping with a wet cloth. Drying can be accelerated by gentle application of heat lamps or air dryers (take care to prevent bubbling). The user should experiment with different LIP products and film thicknesses - only 5-10µm dry film thickness is usually required. Important that any performance testing is not conducted until 48 hours after application if possible.

Note: This is a water-based product so avoid freezing temperatures (before product is applied) and do not apply to bare/unlacquered metal.

#### Packaging Options

- 40ml felt pen
- 50ml pump spray
- 1kg plastic container
- 5kg plastic container