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Thetapel™ LP-C600

Short-Chain Leather Protector Gel

Overview

- Short-Chain Fluorochemical Technology (meets the goal of the US EPA 2010/2015 PFOA Stewardship Program)
- Rich, spreadable, Ready-to-Use gel that protects finished leathers from stains
- Colorless and non-yellowing, does not leave an artificial sheen
- Imparts exceptional Oil, Water and Alcohol Repellency
- Water-based, meeting all VOC Regulations with low VOC (less than 100g/L, as delivered) content
- All-in-One finish for protecting both leather upholstery and apparel
- Treated surfaces are easier to clean, and stay clean longer
- Excellent wear durability
- Designed for ambient temperature application and performance
- Easy to apply, simply rub into leather surfaces and wipe off excess
- Performance summary-
 - Water/Alcohol repellency:** 6 or better
 - Oil repellency:** 4, with most leathers 5-6

Applications

- Automotive interiors
- Leather upholstery
- Leather apparel: pants, skirts, jackets and gloves
- Leather shoes, boots and saddlery
- Luggage, briefcases and handbags

Technical Information

Thetapel LP-C600 is a partially fluorinated leather protector gel designed for ready-to-use stain protection of finished leather surfaces. Thetapel LP-C600 has been specifically designed for ease of use, imparting an invisible stain protection barrier without altering the feel or appearance of the leather, or leaving an artificial sheen.

Regular use of Thetapel LP-C600 allows leather to maintain a “like new” appearance by imparting an invisible barrier that blocks penetrating water, salt and dirt-based stains. Free of silicones and waxes, Thetapel LP-C600 treated leathers breathe naturally.

Environmentally responsible, Thetapel LP-C600 is non-flammable and meets all current VOC regulations.

Formulary

Simply apply in a circular motion using a lint-free cloth, wiping off any excess after working it into the leather.

Thetapel LP-C600 has been found to be effective on a wide range of finished leather surfaces, including upholstery, apparel, luggage and automotive interiors.

Typical Properties

PROPERTY	VALUE
Appearance	Clear to slightly hazy, colorless to pale yellow gel
Odor	Mild
Water solubility	Dispersible
pH (as is)	4.0±0.5
Viscosity@25C (Brookfield), MPa·s/cps	5,000-25,000
Flash point	None (aqueous)
Storage	Protect from freezing
Shelf life	12 months

Packaging and Handling

Thetapel LP-C600 is available in:
275 gallon totes (Net Wt. 2200 lbs)
55 gallon plastic drums (Net Wt. 440 lbs)
5 gallon pails (Net Wt. 40 lbs)

Refer to Material Safety Data Sheet (MSDS) for information on the safe use, handling, and disposal of this product

DOT Classification: Non-Regulated

Whether you're looking for a replacement product, or an ingredient for a specific attribute, give us a call. We can provide assistance based upon your particular formulation requirements and composition; please feel free to contact us.

Please refer to back page for important information

Thetapel™ LP-C600 Performance Data

Water/Alcohol Repellency and Oil Repellency

Water and Oil repellency are key determining performance parameters for textile soil and stain resistance, with fabrics that repel soiling and staining liquids being more resistant. Leather surfaces treated with Thetapel LP-C600 are highly repellent to soiling and staining liquids.

Water/Alcohol Repellency Drop Test (DuPont Test Method)

To evaluate the relative water repellency of a treated fabric, the Water/Alcohol Repellency Drop Test is commonly used. In this test, a series of wetting solutions with increasing wetting power are applied to a treated test fabric, with treated surfaces repelling the strongest wetting solution achieving the highest repellency rating. Repellency was measured by applying 3 drops of test liquid and observing wetting of the treated surfaces. Test liquids ranged from weakly wetting 2% isopropanol in water (1 rating) to strongly wetting 50% isopropanol in water (6 rating). The higher the concentration of isopropanol (higher number rating) of the drop not wetting the surface, the more repellent the surface. If the drops were repelled for longer than 10 seconds the surface was judged to be repellent to the test liquid.

The water repellency of the Thetapel LP-C600 treated leathers achieved high repellency ratings greater than 6, indicating a strong resistance to soiling and staining liquids.

Oil Repellency Drop Test (AATCC Test Method 118-1989)

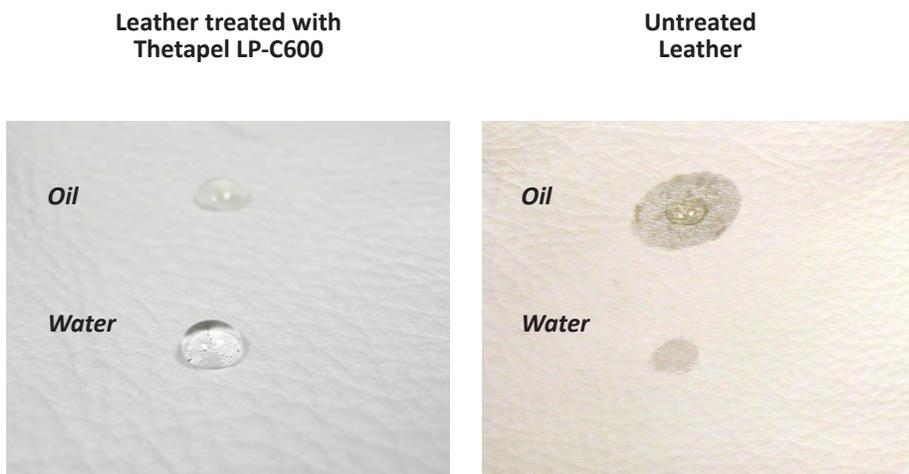
To evaluate the relative oil repellency of a treated fabric, the Oil Repellency Drop Test is commonly used. In this test, a series of solvent solutions with increasing solvent power are applied to a treated test fabric, with treated surfaces repelling the strongest solvent solution achieving the highest repellency rating. Repellency was measured by applying 3 drops of test liquid and observing wetting of the treated surfaces. Test liquids ranged from weakly wetting mineral oil (1 rating) to strongly wetting decane (6 rating). The higher the number rating of the drop not wetting the surface, the more repellent the surface. If the drops were repelled for longer than 10 seconds the surface was judged to be repellent to the test liquid.

The oil repellency of the Thetapel LP-C600 treated leathers achieved high repellency with all leathers achieving at least a 4 rating, with most achieving 5-6, indicating a strong resistance to soiling and staining liquids.

Demonstration

As demonstrated in the photos on the right, treating leather with Thetapel LP-C600 produces an oil and water repellent (stain and soil repellent) surface as evidenced by the nicely beaded droplets, while the untreated leather shows little or no resistance as the droplets soak into the leather. Treated leather surfaces will hold out oils for days or weeks and water will dry on the surface without soaking in.

Note: The appearance of the leather was not changed by treatment with the leather protection gel. Rather the apparent color difference seen is due to lighting differences when the photos were taken.



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