ARLON

PRODUCT INFORMATION BULLETIN

DPF 8000 Ultra Tack

Industrial Grade Film for Hard-to-Stick Surfaces

DPF 8000 Ultra Tack is a 3.5-mil (90 micron) satin white, high-tensile, PVC film with aggressive, permanent pressure-sensitive adhesive. Designed to adhere to "hard-to-stick" surfaces, DPF 8000 Ultra Tack offers a special adhesive system that is designed to adhere to difficult substrates and low surface energy plastics, especially ABS plastic. DPF 8000 White is also designed to meet typical permanent marking requirements and specifications for heavy industrial equipment markings, including OEM markings, off-road vehicles such as motorbikes, and other hard-to-stick applications. The film installs best on flat surfaces when processed and applied according to Arlon recommendations. DPF 8000 Ultra Tack is fire certified under ASTM E-84 and EN 13501-1:2007+A1:2009 of Euro Class C, S1, d0. This product is also rated up to 7 years* (unprinted) for outdoor durability. Printed durability is dependent on the ink system used

APPLICATIONS & FEATURES

- Digital printing with a wide variety of direct print systems.
- Designed for "hard-to-stick" surfaces & ABS plastics.
- Application in cold temperature environments.
- Slightly textured and/or low-energy surfaces.
- Compatible with ProTec Series 3960, Series 3420, Series 3270, Series 3220, Series 3210, Series 3170, or SeriesV3370 overlaminates

Certified for **HP Latex Inks**

PERFORMANCE & PHYSICAL DATA

PROPERTY	TEST METHODS	TYPICAL VALUE	
SURFACE FINISH	Gloss Meter 60° Reflection	40 to 60 Gloss Units	
THICKNESS	Micrometer, Federal Bench Type	3.5-mil (90 micron)	
TENSILE STRENGTH	Tensile Tester with 2-in (51 mm) jaw separation; crosshead speed of 12 in/min. (5.1 mm/s), web direction	13.0 lb/in	2.3 kg/cm
ELONGATION	Instron Tensile Tester as above	> 150%	
SHELF LIFE (IN BOX)	Ideal Storage Temperature 70°F (21°C) and 50% relative humidity	1 year from factory shipment	
APPLICATION TEMPERATURE RANGE	On clean, dry substrate	30°F to 80°F optimum	-1°C to 27°C optimum
SERVICE TEMPERATURE RANGE	On clean, dry substrate	-65°F to 225°F	-54°C to 107°C
DIMENSIONAL STABILITY	158°F (70°C), 48 hours	50 - 150 mil	1.27 - 3.81 mm
PEEL ADHESION	PSTC-1, 15 min, 70°F (21°C)	5.0 lb/in	0.89 kg/cm
LINER RELEASE	TLMI Release at 90˚, 300 in/min (760 cm/min)	50 g/2 in	20 g/cm

**Outdoor durability rated up to 6 months for vertical masonry surfaces (brick, cinder block and concrete). This is contingent upon no rain or harsh outdoor weather conditions.*

***When used with Series 3220G, Series 3420G or M*

Standard Terms & Conditions Apply

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PREPARATION & INSTALLATION

General

DPF 8000 Ultra Tack owes its very high bond to the softness of the adhesive. The trade off for high tack and adhesion is to expect higher visible shrinkage than normal. As a result, it is best practice to not leave the printer unattended when printing to avoid headstrikes due to adhesive build up on the film edges over time. *Click here to see the WrapItRight video: Preventing Adhesive Build-Up When Printing with Arlon DPF 8000*. When decorating DPF 8000 Ultra Tack with screen or digital printing the solvent involved will penetrate both the vinyl and adhesive at the time of printing. If the printing solvents aren't completely removed before installation the resultant graphic will show very high shrinkage and edge curl. When printing this product be vigilant about drying the finished decal completely before laminating, top coating or installing. For paneled graphics, an overlap of at least 1/4 inch is recommended to accommodate for any shrinkage that may occur over time.

Masonry Surfaces (Brick, Cinder Block and Concrete)

Refer to Arlon's Wrap Graphics Overview - Technical Bulletin for more information.

Special Considerations

Because of the porous nature of all masonry surfaces (brick, cinder block and concrete) and its general roughness, Arlon does expect water, snow or ice to seep between the film and wall and collect on the upper edges of the applied graphic. For this reason an edge seal is recommended on applications that have very rough surfaces. Rough surfaces may not carry the standard warranties.

Plastic

These surfaces benefit from slightly roughening with sand paper before installation or surface oxidation with flame. For many polyolefinic surfaces, once the oily skin of the plastic is modified bond will improve dramatically.

Addition of heat during removal will make the process much cleaner and faster. Where possible allow the surface to reach 80°F/27°C or more before removing the film. Where ambient temperature is not that high use either a very "soft" flame type torch or heat gun to bring the temperature up. Arlon recommends getting the film and under laying adhesive above 100°F/38°C.

Due to the porosity of certain types of plastics (i.e. PP, PE), plastics exposed to gasoline from tanks will migrate through plastic and interfere with vinyl adhesion to the plastic. We do not recommend wrapping gasoline tanks or similar plastics exposed to like fumes.

Floor Applications

DPF 8000 Ultra Tack is recommended for short-term interior floor applications when used with either Series 3220 Gloss, Series 3420 Gloss or Series 3420 Matte, which are approved under UL 410 regulation for slip-resistance for Floor Graphic Materials. To determine the best product for application Arlon always recommends testing prior to using the above products on the actual surface as product performance can vary greatly depending on the surface type, level of foot traffic, elemental exposure, carpet type, and floor condition. Due to these variables, Arlon only warrants the material(s) for standard manufacturers defect and is unable to offer a warranty for the performance or clean removability of these products for floor graphic applications.

Please refer to Arlon's Installation Guide for detailed techniques and best practices.

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GRAPHICS REMOVAL

Remove the film in a continuous smooth motion at a shallow angle for the fastest separation. Where it is practical, two people on the removal make the job go far faster than using just one. With one person working the heating unit in front of the second person who is peeling film, the job proceeds at a uniform and consistent pace. Where only one person is working there will be constant starting and stopping in addition to the problems of the heat being very inconsistent.

REMOVAL RECOMMENDATIONS

- Temp range 55°F (13°C) or higher. If environment temperature is lower than 55°F (13°C), heat gun or blow torch should be used.
- Film removal angle >90 degrees from vertical wall.
- Removal rate: slow (1 in/sec) and constant pull of graphics towards the ground.

TERMS & CONDITIONS

The warranties offered in Arlon's Standard Terms and Conditions, which are incorporated in full by this reference and are available at https://www.arlon.com/na_en/legal/terms-and-conditions, are made in lieu of all other express or implied warranties.

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