PRODUCT DATA SHEET
AWL®COAT TPC
WP101

Features & Uses

Awl-Coat TPC is a water-based, temporary peelable coating that serves to protect surfaces from damage or contamination. Awl-Coat TPC provides a tough film that guards against scuffing, abrasion and contamination such as overspray, acid rain, fly rust or sanding dust. The product is primarily developed as a solution for boat builders in production or refit environments. Awl-Coat TPC may be applied over Awlgrip and Awlcraft 2000 topcoats.

Specification Data

Type: Vinyl Acrylic.

Packaging: Available in 5 gallon containers.

Theoretical Coverage: Sq. Feet/Gallon: 267 - 160 ft²/gl at 3-5 mils dry (4 – 7 m²/lt at 75 - 125 microns dry).
Coverage calculations are based on theoretical transfer efficiency of 100%. Actual coverage rate obtained will vary according to equipment choice, application techniques, part size, and environment.

Recommended Wet Film Thickness: 6-10 mils (150-250 microns) per coat.

Recommended Dry Film Thickness: 3-5 mils (75-125 microns) per coat. A minimum of 3 mils (75 microns) is recommended to ensure easy removal. To increase resilience to wear damage (abrasion, etc) a higher film build is recommended (5-10 mils/ 125 -250 microns dry film thickness). This may require a two coat application.

Recoatability at 59ºF/15 ºC: Minimum (with itself): 30 mins (touch dry). Max time: indefinite.

Recoatability at 75ºF/25ºC: Minimum (with itself), 20 mins (touch dry). Max time ; indefinite.

High Humidity will extend the dry time.

Peel time* (at 55 - 104ºF / 13 - 40ºC) : 1 hour. Awlcoat TPC should not be left on the painted surface for more than 4 months.

*****_This is the minimum time required in which sufficient film strength has developed to facilitate the peeling process. Peel times beyond those quoted will allow further film strength development to take place and subsequently improve peeling efficiency._

Do not apply other Awlgrip products over Awl-Coat TPC.

VOC: Light gray WP101 – 55 g/lt / 0.46 lbs per gallon.

Volume Solids: 50%

Product Components, Reducers, Additives, and Auxiliary Components

Light Gray WP101
Equipment Cleaning ..... Water (when wet) or M.E.K.

Application Equipment

Conventional or airless spray. Brush application is suitable for small areas only.

SPRAY EQUIPMENT
Conventional Spray : **Pressure Pot System Guns**

Spray Gun: Binks, DeVilbiss MBC or JGA
Air Cap/Air nozzle: #68PB, 704 or 765 (depending on make of gun)
Fluid Tip/Nozzle: 0.110” orifice, E or 2.2 (depending on make of gun)
Pressure pot gauge should read 15 psi*.
Atomizing pressure 25 psi*

* This is a typical recommendation for a hose length of 25 feet.

Airless Equipment

Orifice Size:	0.017" -0.021" (0.43 – 0.53mm)
	Total output fluid pressure at spray tip not less than 1500 psi (105kg/cm²)
Fan width:	12" (30cm)
Pump ratio:	33:1 to 45:1

Surface Preparation

Awl-Coat TPC is suitable for application over Awlgrip and Awlcraft 2000 topcoats. It is important that the coating materials have undergone sufficient cure to ensure properties such as gloss and color are not affected by the application of Awl-Coat TPC.
The surface of Awlgrip or Awlcraft 2000 should be clean, dry (cured) and free from contaminants.
Use masking tape to protect adjoining surfaces from overspray and 'feather edges' that would be difficult to peel. Mask off areas such as deep joint seams and channels that may create a mechanical keyway into which the coating will lock. Awl-Coat TPC can wrap around sharp edges but due to limited film build on such edges this may prove more difficult to peel. Therefore, mask the sharp edges prior to application. Plastic masking tape (3M's Fine Line) is recommended as this material doesn't react with the water content in the wet film.

Mixing and Reduction

Awl-Coat TPC is a single component coating and should be mixed thoroughly prior to application. A power agitator will aid the mixing process. Do not reduce Awl-Coat TPC.

Application Instructions

Allow Awlgrip and Awlcraft 2000 to cure for a minimum of two cure cycles (96 hours at 77ºF/25ºC). Ensure the surface is clean from contaminants. The product is water-based and good air flow is therefore encouraged. Apply Awl-Coat TPC to the recommended film thickness on page one. For best result aim for a smooth, continuous film and avoid sags or other defects as in warmer climates this could result in a 'print through' effect on the finish. For additional protection a second coat can be applied after 20 minutes or when it is touch-dry.
Overspray will not peel off but can be removed with a damp cloth or wiped off using alcohol. You can recoat overspray to build film thickness then peel off.
Awl-Coat TPC has a tendency to develop a level of 'sticking' when pressed against another surface or itself. This should be taken into consideration when stacking coated material. Placing heavy items on top of Awl-Coat TPC could leave an imprint in substrate underneath.
Masking tape should ideally be removed from edges when the product is still wet.

Note: Due to the wide variety of application methods, environments & expectations, customers should test the complete system for compatibility & suitability under their own conditions prior to full scale application. DO NOT APPLY OVER UNPAINTED GELCOAT, POLYCARBONATES, GLASS OR WOOD.

Removal

Once dry, Awl-Coat TPC can easily be removed by grasping the edge of the film and peeling it off the surface. Thicker areas will dry slower. If product is removed before it's completely dry the peel characteristics will be compromised.
On rare occasions Awl-Coat TPC may leave a very light haze on the topcoat surface. Frequently this haze self-corrects over a 24hr period or shorter, especially if exposed to sunlight. In other examples a wet cloth is needed to remove the effect.

Disposal: Once removed, Awl-Coat TPC can be compacted by hand (using gloves) to reduce waste volume and the product should be disposed of in accordance with appropriate regional regulations.

Warning:

Do not apply paint materials to surfaces less than 3°C (5° F) above dew point, or to surfaces warmer than 41°C (105°F). Ambient temperature should be minimum 13°C (55°F) and maximum 40°C (104°F). Awl-Coat TPC is water-based and should be kept from freezing. Due to the fast drying nature of Awl-Coat TPC , keep container closed when not in use as it is prone to skinning. During application keep spray gun aircap clean with water and brush. It is good practice to filter Awlcoat with mesh(60) screen prior to application.