



## Harbor Guard Technical Data Sheet for TEAK Surfaces

**NOTE:** Ensure you review the appropriate data sheet for the substrate you intend to apply Harbor Guard.

### I. PRODUCT DESCRIPTION

**Harbor Guard** is a thin film, single-component, clear sealer designed to protect marine assets from bird droppings, fish blood, squid ink, acids, salt, ice, diesel exhaust, graffiti, and other stains. It forms a covalent bond with most substrates, including teak as a final topcoat over urethane and varnish, and is UV stable. Harbor Guard creates a new surface that prevents oxidation and simplifies cleaning.

#### Application Methods:

- Hand microfiber applicator pad
- Foam Brush

### II. RECOMMENDED USES

- Teak Cap Rails, doors, counter trim and other wood that is coated with Urethane or Varnish. Can be slippery if applied to teak treads for decks. Use Non-skid tape over surfaces that are walked on for traction.

**Note:** Only apply to substrates listed on the data sheet.

### III. PRODUCT CHARACTERISTICS

#### PROPERTIES

- **Color:** Clear or slight amber (temperature and humidity-dependent)
- **Finish:** Gloss
- **Vehicle Type:** Solvent Base
- **Flash Point:** -9°C / 15°F (Penskey-Martens Closed Cup)
- **VOC:** Less than 100 g/L



- **Weight/Liter:** 0.96 kg/L

### DRY TIME

- **Touch Dry:** 2–4 hours 50% RH: Temperature, humidity and surface temperature dependent. The higher the temperature and humidity, the faster the dry time.
- **Light Foot Traffic:** 6 hours
- **Heavy Traffic:** 24 hours
- **Forklift Traffic:** 24 hours minimum
- **Dry to Recoat:** 24 hours (may vary depending on humidity)
- **Full Chemical Resistance Cure:** 7 days

### COVERAGE

- Coverage rates vary based on substrate porosity and texture. Typical coverage is 250–300 square feet per liter.

### TESTING RESULTS

Staining Agent	Resistance Time (hours)	Cleaner Required
10% Citric Acid	12	Dry Cloth
Acetone	48+	Dry Cloth
Balsamic Vinegar	12	Dry Cloth
Betadine	6	Wet Cloth
Brake Fluid	48+	Dry Cloth
Coffee/Tea	48+	Dry Cloth
Gasoline	48+	Dry Cloth
Permanent Marker	48+	Solvent
Red Wine	48+	Dry Cloth
Spray Paint	48+	Solvent

Staining Agent	Resistance Time (Days)	Cleaner Required
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Diesel Exhaust	14+	Soap and Water
Bird Droppings	7+	Soap and Water
Squid Ink	7+	Soap and Water

#### ASTM TESTING DATA

- **Abrasion Resistance (ASTM D4060):** 1000g @ 1000 rotations – 7 mg
- **Film Hardness Pencil (ASTM D3363):** 9H
- **Adhesion on Aluminum (ASTM D4541):** 11721 kPa
- **Adhesion (ASTM D3359-97):** 4

#### IV. APPLICATION INSTRUCTIONS

**Working Time:** Approx. 2 minutes at the wet line at 70°F, 60-80% humidity. Harbor Guard is moisture-cured and should not be applied if rain or dew is expected within 4 hours.

##### Required Materials:

- Harbor Guard
- Gloss Meter
- Microfiber application pads
- Application Tray
- Foam brushes
- Nitrile gloves
- Eye protection
- IPA (Isopropyl Alcohol)
- Acetone (for tough stains)
- Distilled water
- Microfiber Rags
- General Purpose Rags
- Small Garbage Pale
- Surface Protection Tray to prevent product spills
- Green Harbor Guard tape
- White Scotch Brite pad



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- Heavy-duty degreaser (e.g., Atomic Degreaser by Benefect)

## Surface Preparation

### 1. Newly Refinished Teak Cap Rails, Doors, and Counter Trim

Harbor Guard bonds effectively to most urethane and varnish finishes commonly used on teak, such as Bristol Finish Traditional Amber Urethane, Awlgrip Awlwood J3809 primer, J3890 gloss or matte finish. When applied over properly finished teak, Harbor Guard preserves the appearance and finish, extending the life of the refinished wood for over five years, eliminating the need for annual sanding and refinishing.

### Key Considerations:

- Harbor Guard will not adhere to teak joint caulking. Apply Harbor Guard before caulking teak joints. If the urethane sticks to the caulk joint you can apply Harbor Guard directly over the teak caulk joint.
- Once the refinishing process is fully cured, clean the surface with soap and water.
- Use the manufacturer's recommended solvent to clean the surface without damaging the finish. Acetone or isopropyl alcohol is suitable for cleaning Bristol and Awlwood Urethanes.

### 2. Existing Urethane and Varnished Teak Cap Rails, Doors, and Counter Trim

Assess the condition of the existing finish. If there are imperfections or exposed teak, follow the manufacturer's guidelines to restore the finish before applying Harbor Guard.

### 3. Repairing Damage to Harbor Guard from dropped sinkers, hooks, rope burns or other impacts that penetrate the surface.

- Harbor Guard has billions of bonds per square millimeter and will not let water migrate under impacted areas.
- Sand the impacted area and as little of the surrounding area as possible.



- If the damage is through to the raw wood repeat the urethane or varnish manufacturers installation procedure to seal the exposed wood.
- Once several coats of the urethane or varnish have been applied to seal the exposed wood, recoat the entire section damaged area with one finished coat and do not sand.
- Apply a final coat of Harbor Guard 24 hours after finished repair process.

## Application Methods

### 1. Application with Microfiber Pad

#### Personal Protection:

- Wear nitrile gloves and eye protection.
- Keep a spray bottle of acetone nearby to remove any unwanted Harbor Guard before it cures.

#### Preparation:

- Pour Harbor Guard into a tray, filling it halfway. Cover the tray during pauses to maintain product usability for up to an hour.
- Always keep fresh product in the tray. Replace the applicator and tray if the product begins to cure or cloud.

#### Microfiber Pad Application:

- Saturate the microfiber pad and wring out excess product.
- Apply in straight, consistent strokes, avoiding swirling motions.
- Conduct a test patch to check for static charge. If beading occurs, wipe with acetone and neutralize the surface with a white Scotch-Brite pad. Re-clean with



isopropyl alcohol or acetone and reapply. Ensuring either solvent is compatible per the manufacturers technical data sheet.

- Apply a single coat of Harbor Guard.

## 2. Application with Foam Brush

- Use the largest foam brush possible and apply Harbor Guard in a forward direction.
- Avoid overworking the product or creating swirling patterns.
- Perform a static charge test, and neutralize, if necessary, as described above.
- Apply one coat of Harbor Guard.
- A second coat of Harbor Guard may be applied after 24 hours. Clean the surface with isopropyl Alcohol and reapply. Test for static charge issues before applying over the entire surface.
- If small bubbles form during application the surface may be too hot if in direct sunlight. Or the foam brush may be forming bubbles. Switch to a microfiber pad or apply in the early morning hours with less sun intensity.

## 3. Large Job Considerations

- Divide large surfaces into smaller sections to prevent the product from curing too quickly.
- If the applicator begins to feel dry or starts pulling, stop and refresh the tray with new product and a new pad or brush.
- Harbor Guard can be sprayed over large areas using an HVLP sprayer. This would be a professional application. Consult with Harbor Guard customer service for assistance.

## 4. Correcting Application Errors

- If misapplied (e.g., overlapping tacky wet lines or leaving an unsatisfactory finish), wipe off Harbor Guard with acetone and reapply.



## 5. Recoat

- Harbor Guard lasts over five years and only requires maintenance if chipped or punctured. It forms a covalent bond, preventing water intrusion beneath the surface.
- For small repairs, clean the area and reapply Harbor Guard. If raw teak is exposed, refinish the affected area before reapplying as described above.

**Note:** Follow all application guidelines to ensure long-lasting protection for your refinished teak surfaces.

## CLEAN UP

- Clean all tools and equipment with acetone immediately after use.
- Once dry, the coating is solvent resistant.

## V. Storage Guidelines for Excess Coating

### Gas Blanket Application

- If there is excess coating remaining in a container, cover the surface of the liquid with a nitrogen or argon gas blanket to prevent oxidation. Argon gas is available in small containers and can be purchased online (e.g., wine preservers from Amazon).

### Transferring to Smaller Containers

- Alternatively, move the remaining coating to a smaller HDPE container to minimize air exposure. Ensure the container is as airtight as possible to preserve the coating.

### Storage Conditions



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- Store the coating in a cool, dry location. Avoid storing solvent-based products in warm areas, direct sunlight, or sun-heated vehicles, as excessive heat can cause the product to darken, and the tint may remain visible when applied.

## Shelf Life

- **Unopened Shelf Life:** 12 months when stored properly.
- **Shelf Life After Opening:** 30 days.
- **Temperature Control** - ensure the coating is stored in a temperature-controlled environment not exceeding 80°F.

## VI. CARE AND MAINTENANCE

- Clean with a mild detergent for stubborn stains or use a degreaser. Otherwise, clean with soap and water as normal. Neutral pH cleaners and degreasers can be used without damaging the finish.

## VII. Safety Guidelines and Environmental

- **Turn Off All Pilot Lights and Open Flames**
- Before beginning the application indoors, ensure that all pilot lights and any open flames in the building are turned off and extinguished.
- **Respiratory Protection**
  - a. Always wear OSHA-approved respiratory protection, specifically compliant with OSHA 1910.134 and ANSI Z88.2 standards. This is critical to protect against inhaling harmful fumes.
- **Ventilation**
  - a. Ensure fresh air and proper exhaust ventilation are provided in enclosed work areas. If someone inhales the vapors, move them to fresh air immediately and contact a physician if they experience any physical difficulties.
- **Skin Protection**
  - a. Wear Nitrile gloves and other appropriate skin protection to prevent contact with the coating. In case of skin contact, wash thoroughly with soap and water.



- **Eye Protection**
  - a. Chemical safety goggles or splash shields must be worn during application. Do not wear contact lenses without proper eye protection. If the coating comes into contact with the eyes, flush them immediately with water for at least 15 minutes and seek medical attention.
- **Ingestion**
  - a. If the coating is accidentally swallowed, rinse the mouth thoroughly and seek immediate medical attention.
- **Observation in Enclosed Areas**
  - a. When working in confined or enclosed spaces, have an observer present to monitor the applicator for any signs of physical distress during the application process.

For more details, visit [www.harborguard.com](http://www.harborguard.com).

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