



# Product Information

## D-50I™ Commercial Grade Mastic

### **Product Description:**

DURABOND® D-50I™ Commercial Grade Mastic is a high performance adhesive for the installation of all types of ceramic and stone tile (except moisture sensitive marble). DURABOND D-50I Commercial Grade Mastic is ready to use for a fast, professional installation and provides excellent vertical grab for wall and ceiling tiles. DURABOND D-50I Commercial Grade Mastic exceeds the requirements of ANSI A 136.1 Type I and II.

### **Suitable Substrates:**

- Gypsum Wallboard
- Exterior grade plywood (floors only)
- Gypsum plaster
- Concrete, cement block, masonry walls
- Cement backerboard
- Existing ceramic tile

### **Directions for Use:**

All surfaces must be structurally sound, clean and free of dust, grease, oil, water, curing compounds, and any foreign materials that may inhibit bond. Follow applicable TCA, ANSI, NTCA specifications.

**Plywood:** Screw or nail loose floorboards. If the subfloor is less than 1" thick, cover it with 1/2" thick exterior grade plywood. Leave a minimum of a 1/4" gap between all sheets or where they abut surrounding walls or fixtures. Fasten plywood with 5d or 6d cement coated screw shank nails.

**Concrete:** Concrete must be fully cured (at least 28 days after pouring), free of excessive moisture, alkalinity, and hydrostatic pressure. It is the responsibility of the user to determine the condition of all concrete substrates prior to installation.

TYPICAL PHYSICAL PROPERTIES	
Open Time	30 - 40 minutes
Adjustability	50 - 90 minutes
Base	Acrylic Co-polymer Latex
Color	White
Weight per Gallon	13 lbs.
Freeze/Thaw	Stable
PERFORMANCE PROPERTIES	
Shear Strength, Dry	>250 psi
	ANSI A136.1, Type I Requirements ≥40 psi

### **Limitations:**

- Not recommended for lugback ceramic tile
- Do not use outdoors
- Do not use to mount soap dishes, grab bars or similar fixtures
- Due to limitations of plywood, do not use on plywood in exterior/wet applications or in heavy traffic areas
- Due to not use in steam showers or pools, commercial showers, fountains, etc.
- Tile application on plywood floors must dry 48 hours before grouting
- Certain low or non-absorptive tiles may require extended curing times
- Do not use in temperatures below 40°F
- Do not use to install moisture sensitive stone
- Do not use to install translucent white marble

### **Application:**

Apply a thin coat of DURABOND D-501 Commercial Grade Mastic using the flat side of the trowel to achieve a good mechanical bond to the substrate, then spread the mastic with the recommended size notched trowel for the type of tile being installed.

Apply no more than can be tiled in 45 minutes. Do not set tile after a skin has formed on the mastic. If skinning occurs, re-apply fresh mastic before continuing. Press or twist individual tile or sheets of tile into the combed mastic. Check a tile or sheets of tile occasionally to ensure at least 95% coverage on the back of the tile. Always beat the tile in with a rubber face beating block to ensure maximum contact and bond. Proper installation requires a finished mastic bed thickness of 1/32" after beat-in. Avoid mastic squeeze up between tiles. Do not walk on floors set with DURABOND D-501 Commercial Grade Mastic for at least 12 hours unless walking boards or plywood sheets are used.

### **Grouting:**

Wait a minimum of 24 hours before using DURABOND Grouts. Reference datasheet or packaging for instructions.

### **Clean Up:**



Remove uncured adhesive with soap and warm water. Remove cured adhesive with mineral spirits.

### **Storage/Shelf Life:**

Close container between application cycles and after use. Store at temperatures between 35°F and 100°F. Protect from freezing. Shelf life is one year from date of manufacturing.

### **Packaging:**

3.5 gallon pails/48 per pallet, (2300 lbs)

<b>SUGGESTED TROWELS FOR MAXIMUM PERFORMANCE</b>	
 <p><b>3/16" x 5/32" V-Notch</b></p> <ul style="list-style-type: none"><li>• 4-1/4" x 4-1/4" wall tile</li><li>• ceramic mosaics</li><li>• 4" x 4" &amp; 4" x 8" glazed wall tile</li></ul> <p>Coverage 50 sq. ft. per gallon</p>	 <p><b>1/4" x 1/4" x 1/4" Square Notch</b></p> <ul style="list-style-type: none"><li>• Large Bodied Tiles</li></ul> <p>Coverage 30 sq. ft. per gallon</p>

### **PLANT LOCATIONS**

TEMECULA, CA 92590

CONYERS, GA 30207

TWINSBURG, OH 44087

PAULSBORO, NJ 08066

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