



# Product Information

## D-40 DURAFLEX™ Multi-Purpose Latex-Modified Mortar

### Product Description:

D-40 DURAFLEX™ Multi-Purpose Latex-Modified Mortar is for interior or exterior installations to set all ceramic, porcelain, granite, slate, marble, limestone, and dimension stone tile over properly prepared concrete, structurally sound, exterior grade plywood (interior/dry use only); cementitious backer board; D222 DURAGUARD™; and existing, well-bonded vinyl/VCT or ceramic tile.

### Product Benefits:

- Extremely Flexible (deflection up to L/360)
- Extremely Durable
- Single-Component Latex-Modified
- Exceeds ANSI 118.4 & 118.11 Requirements
- Freeze/Thaw Stable
- For All Tile Absorption Rates
- For Interior and Exterior Installations
- For Vertical and Horizontal Installations

### Directions for Use:

Read and understand data sheet completely before beginning installation. Follow applicable TCNA, NTCA and ANSI installation standards.

### Surface Preparations:

Surface must be clean, dry and smooth; free of voids, projections, loose materials, oil, grease, sealers, curing compounds, waxes and all other surface contaminants that may inhibit proper bond.

### Mixing:

Using a slow speed mixer (< 150 rpm), mix 5 to 5½ quarts of clean potable water to 50 pounds of D-40 DURAFLEX. Mix to creamy consistency. Allow mixture to stand 15 minutes, and re-mix prior to application. Do not re-temper by adding more liquid.

### Application

Apply a thin coat of D-40 DURAFLEX with the flat edge of trowel to achieve a good mechanical bond to the substrate. Comb additional mortar with the appropriate size notched trowel. If any evidence of skinning or setting occurs, re-comb mortar with notched trowel. Apply mortar to an area no greater

### TYPICAL PHYSICAL PROPERTIES

Open Time (@70°F)	>40-70 minutes
Adjustability Time	50-70 minutes
Pot Life (@70°F)	1-2 hours
Exceeds ANSI A118.4 A118.1 requirements	
<b>Shear Strength, 28 Day</b>	
Porcelain Tile	400 psi (ANSI REQ 200)
Glazed Wall Tile	443 psi (ANSI REQ 300)
Quarry Tile	300 psi
Quarry to Wood*	200 psi (ANSI REQ 150)

28 Day Compressive Strength 3000 psi

\*Wood failure (wood typically fails between 250 to 300 psi)

than can be tiled in 20 to 30 minutes. Apply using a twisting motion into a fresh bed of mortar to ensure maximum contact and bond. Periodically check back of tile to ensure proper transfer (interior applications—minimum 80% coverage; exterior, wet, or plywood applications—minimum 95% coverage). A finished mortar bed thickness of 3/32" to 1/8" is required.

**Application Over Plywood:** Maximum joist spacing shall be 16" on center. Plywood shall be Underlayment Exterior Grade or C-C Plugged Exterior Grade plywood (or better). If the existing floor is less than 1" thick, glue and nail 15/32" or 1/2" APA Underlayment Exterior Grade or C-C Plugged Exterior Grade plywood to floor. Glue and nail using 5D or 6D (1½" or 2") cement coated screw shank nails 6" on center along the panel edges and a maximum of 8" on center each way throughout the panel. Allow 1/8" gap between underlayment sheet edges and all areas that abut walls, drains, posts, etc.; these areas shall be filled with mortar when tiles are installed. Clean and rough sand the plywood. Due to the limitations of plywood as a substrate, D-40 DURAFLEX is not intended for use on plywood in exterior, wet interior, or applications subject to heavy/commercial traffic.



**Application over existing vinyl/VCT flooring:** Vinyl must be clean, free from sealers or waxes and well-bonded to substrate. Do not install over cushion-backed or perimeter-bonded sheet vinyl. Remove any loose pieces of vinyl or flooring. Ensure the exposed substrate is suitable for application.

**Application over existing ceramic tile:** Tile must be clean and well bonded to substrate. Mechanical abrasion with a Carborundum disk followed by a clear water wash is recommended. Installation must be thoroughly rinsed and dry before setting the new tile.

**Curing:**

Keep all foot traffic off the installation until tile is firmly set (approximately 12 hours). Set times are dependent upon temperature and humidity.

**Grouting:**

Depending on ambient, slab, and material temperatures, grouting can generally begin after 12 hours with any quality DURABOND grouting system. Allow 48 hours before grouting with Bostik EzPoxy™ or any 100% solids epoxy grout. Allow 24 hours before grouting with Bostik TruColor™ Pre-Mixed Grout or any urethane-based grout.

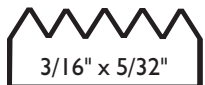
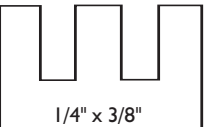
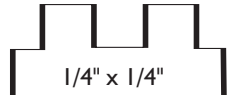
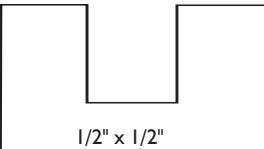
**Clean-Up:**

Clean all tools and equipment with soap and water. Do not allow material to dry on surface of tile.

**Limitations:**

- Do not use for installing moisture sensitive stones (e.g., green marble).
- Do not use in installations where deflection exceeds L/360 (1" in 30 feet).
- Do not apply over oriented strand board, particle board, masonite, luaun or similar unstable substrates.
- Do not use where hydrostatic pressure can occur.
- Due to the limitations of plywood as a substrate, D-40 DURAFLEX is not intended for use on plywood in exterior, wet interior, or applications subject to heavy/commercial traffic.

**RECOMMENDED TROWELS FOR MAXIMUM PERFORMANCE**

<p style="text-align: center;">Ceramic mosaics Mounted ceramics Coverage 85-100 ft<sup>2</sup></p> <div style="text-align: center;">  <p><b>3/16" x 5/32"</b></p> </div> <p style="text-align: center;">6" x 6", 8" x 8" &amp; 12" x 12" Ceramic Quarry tile Coverage 50-60 ft<sup>2</sup></p> <div style="text-align: center;">  <p><b>1/4" x 3/8"</b></p> </div>	<p style="text-align: center;">4" x 4" &amp; 4" x 8" Ceramic &amp; pavers Coverage 70-80 ft<sup>2</sup></p> <div style="text-align: center;">  <p><b>1/4" x 1/4"</b></p> </div> <p style="text-align: center;">8" x 8" &amp; 12" x 12" Lugged back &amp; Mexican paver tile Coverage 35-40 ft<sup>2</sup></p> <div style="text-align: center;">  <p><b>1/2" x 1/2"</b></p> </div>
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*Coverages shown are approximate and are given for estimating purposes only. Actual jobsite coverages will vary according to trowel size, tile size and thickness, job conditions, and setting practices.*

**PLANT LOCATIONS**

TEMECULA, CA 92590  
 CONYERS, GA 30207  
 PAULSBORO, NJ 08066

[www.bostik-us.com](http://www.bostik-us.com)

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