



DURAPATCH VOH™

DS-174.3-0417

A product brand of LATICRETE International, Inc.



1. PRODUCT NAME

DURAPATCH VOH™

2. MANUFACTURER

LATICRETE International, Inc.

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Fax: +1.203.393.1684

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3. PRODUCT DESCRIPTION

DURAPATCH VOH is a pre-measured, cement-based, thixotropic mortar consisting of polymers, low density aggregates, and additives for easy-to-use vertical and overhead patch repairs. This product resists damage from mechanical impact and abrasion, environmental, freeze-thaw deterioration, and chemical destruction from mild acids, caustic solutions, and other chemical contaminants.

Uses

DURAPATCH VOH is ideal for patching overhead and hard-to-reach vertical patch areas. Use on parking ramps, overpasses, tunnels, pass-throughs, and where structural and environmental stability are critical. This patch can also be used for renovating existing commercial and residential structures to correct uneven areas. It can be applied at reduced thickness and can be modified to meet tolerances at stairwells, elevators, parking structures, tunnels, and dams. The non-shrink, non-staining and high strength features of DURAPATCH VOH assure a concrete repair that is structurally sound and aesthetically pleasing. This product's excellent workability, durability and strength make it ideal for repairing both old and new concrete.

Advantages

- Ideal for old or new concrete
- High bond strength provides excellent adhesion for vertical and overhead repairs
- Fast turnover of repair area
- Durable freeze/thaw properties

- Flowable consistency

Suitable Substrates

- Existing Concrete

Packaging

50 lb (22.7 kg) bag

Approximate Coverage

| Nominal Thickness | Approximate Coverage |
|-------------------|---|
| 1/2" (13mm) | 11 ft ² (1.0m ²) |

Shelf Life

DURAPATCH VOH bags are to be kept in dry storage to prevent water contamination. Shelf life is one (1) year in unopened bags when properly stored.

Limitations

- For best results, surface temperature should be between 35°F (2°C) and 85°F (29°C)
- Do not install over painted surfaces
- Do not exceed recommended mixing ratio as indicated in mixing instructions. Over watering will weaken product properties.
- Never mix with cement or admixtures
- Do not retemper
- After placing, protect from direct heat and sun

Cautions

- Refer to Safety Data Sheet (SDS) before using
- Protect finished work from traffic until fully cured
- Contains portland cement and silica sand
- May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally
- Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children

Mock-ups and field test areas are required in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti-dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction) to ensure system performance as specified for the intended use, and to determine approval of the decorative flooring system.

4. TECHNICAL DATA

Applicable Standard & Test Methods

ASTM C387
ASTM C666
ASTM C928
ASTM C191
ASTM C109
ASTM C348
ASTM C882

Physical and Working Properties

| Property | Observed |
|---------------------------------------|-------------------|
| Min. – Max. Depth | 0-1/2" |
| Set time, ASTM C191 | Initial: 60 min |
| Working Time | 40 minutes |
| Compressive Strength ASTM C109 1 day | 2000psi (13.8MPa) |
| Compressive Strength ASTM C109 7 day | 3700psi (25.5MPa) |
| Compressive Strength ASTM C109 28 day | 5500psi (37.9MPa) |
| Flexural Strength ASTM C348 28 days | 1100psi (7.6MPa) |
| Bond Strength, ASTM C882, 28 days | 2900psi (20MPa) |

Specifications are subject to change without notification. Technical data shown in product data sheets are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance and test results will depend on installation methods and site conditions. Field test results will vary due to critical job site factors. All recommendations, statements and technical data contained in this data sheet are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind. Satisfactory results depend upon many factors beyond the control of LATICRETE International, Inc. User shall rely on their own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from their direct use, indirect use or consequential to their use of the product. LATICRETE shall not be liable to the buyer or any third party for any injury, loss or damage directly or indirectly resulting from use or inability to use the product.

5. INSTALLATION

Surface Preparation: Prepare surface in accordance with ICRI Technical Guidelines. Abrade smooth surfaces to 1/8-1/4" (3-5 mm) (Ref: CSP 5, ICRI 03732) to assure bond. Remove all unsound concrete not bonded to the rebar down to 3/4" (20 mm) below the rebar. Remove rust and scale from the rebar. Flush with water to remove all dust. Soak surfaces with water prior to placement.

Mixing: Locate the mixer close to the repair area. Pour clean water into mixer. Use 3 1/2 - 4 1/4 qts (3.3 - 4.0 L) of water per bag depending on consistency desired. Add powdered DURAPATCH VOH™, slowly mix for a minimum of 4 minutes, until uniform in consistency and lump free. Adjustments should be made to produce a workable mix. Place immediately.

Placing: In prepared area immediately scrub product into substrate from one side to the other. Work firmly into bottom and sides of void to remove air and assure proper bond. Smooth out to a featheredge where necessary. Place in maximum lifts of 1/2" (13 mm). Where multiple lifts are required, score top surface of each lift to produce a roughened surface for next lift. Saturate surface of each lift with clean water. Allow prior lift to take final set before reapplication. Slightly overfill the patch and shave or shape the DURAPATCH VOH to fit the elevation of existing or previous concrete.

Cold Weather: For temperatures below 35°F (2°C): Heat the concrete until warm. Pre-condition DURAPATCH VOH to 70°F (21°C) before use. Use warm water to increase rate of hardening. Do not use accelerators or antifreeze.

Hot Weather: For temperatures over 85°F (29°C): Use ice water and keep patch cool. Do not place on hot, dry substrate.

Curing: Protect from moisture loss, high winds, heat of the sun and extremes in temperatures that could cause rapid drying. Reaches full cure in 24 hours.

6. AVAILABILITY AND COST

Availability

L&M™ and LATICRETE® materials are available worldwide.

For Distributor Information, Call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at www.laticrete.com.

Cost

Contact a LATICRETE Distributor in your area.

7. SHORT SPEC

039920: Concrete Patching and Resurfacing: Non-sag, cement-based, concrete repair mortar, minimum 7000 psi in 28 days.

8. WARRANTY

See 10. FILING SYSTEM:

DS 230.13: LATICRETE Product Warranty

9. MAINTENANCE

Non-finish LATICRETE and LATAPOXY installation materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

10. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at www.laticrete.com.

11. FILING SYSTEM

Additional product information is available on our website at www.laticrete.com. The following is a list of related documents:

DS 230.13: LATICRETE Product Warranty

L&M Construction Chemicals
A product brand of LATICRETE International, Inc.
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