



DISPERSED HYDRATED LIME DLS – SPACHTEL

Product Data Sheet

Description and Use

Dispersed Hydrate Lime Spachtel is an engineered repair mortar designed for the repair of nonstructural cracks and voids in stone or masonry units. DHL Spachtel is a mineral-based, single component material that does not require mixing with any other additives, including water. Formulated using only natural mineral binders, DHL Spachtel exhibits excellent UV, freeze-thaw and salt resistance while maintaining flexibility and vapor permeability.

DHL Spachtel is typically installed in-situ to fill and repair nonstructural cracks and voids in existing masonry units. DHL Spachtel is applied with a trowel or by hand, and finished by hand, typically within a few hours of application. Utilizing DHL Spachtel on masonry unit restoration projects results in substantial cost savings initially due to speed of installation and later due to durability of repairs. Skilled restoration masons can easily apply DHL Spachtel; training is offered but no special certification is required.

Features and Benefits

- Sympathetic product formulation ensures compatibility with stone based on key performance measures, resulting in superb long-term repair durability
- Custom-matched colors and aggregate profiles produce unbelievable visual accuracy
- USHG provides unmatched product and project support, for one pail or hundreds, to ensure excellent results for every installation.
- Can be applied on soft or fragile masonry substrates
- No synthetic polymer additives are added. No cement is present in the mixture

Sales Product and Project Support

US Heritage Group supports, sells and ships all products directly to ensure we consistently deliver the highest quality results possible. Contact USHG for a variety of support services:

- Specifier education
- Project-specific technical advice
- Specification guides and support
- Installation guides and training

Technical Data

Compressive Strength at 28 Days:	725-1595 psi
Bond Strength:	29-87 psi
Flexural Strength:	493-870 psi
Modulus of Elasticity:	1.0X10 ⁶ (6) psi
Porosity:	25-37%
Absorption:	12-26%
Linear Coefficient of Thermal Expansion:	6.56X10 ⁻⁶ (-6)/F°

Packaging and Coverage

1-quart plastic jar (2 lbs.)	35 cubic inches of mixed material
1-gallon plastic pails (9 lbs.)	150 cubic inches of mixed material

Limited Warranty

U.S. Heritage Group, Inc. warrants this product to be of merchantable quality when used or applied in accordance with the manufacturer's instructions. This product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is LIMITED to the replacement of the product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given in writing to U.S. Heritage Group, Inc., 2900 North Kearsarge Ave., Chicago, IL 60641. THIS LIMITED WARRANTY IS ISSUED AND ACCEPTED IN LIEU OF ALL OTHER EXPRESSED WARRANTIES AND EXPRESSLY EXCLUDES LIABILITY FOR CONSEQUENTIAL DAMAGES.

US Heritage Group

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Surface Preparation

Cracks and voids being repaired with DHL Spachtel should be less than 1/4" wide. Cracks or voids 1/4" or wider should be filled using the appropriate corresponding Heritage Masonry Repair Mortar

1. Sound off and chisel out all loose and deteriorated stone.
2. Clean the area with clean water and a stiff-bristled brush to remove any loose stone particles.
3. Neutralize any salt deposits (efflorescence and sub florescence) with distilled water.
4. Dampen with clean water 3 hours before application until glistening with no standing water.

Mixing

DHL Spachtel is a wet mix and is ready for installation straight out of the container. No additional materials need to be added to the mixture.

1. Masonry pigments and aggregate may be added to DHL Spachtel as needed. When adding pigments and aggregate, the total weight of the added materials should not exceed 10% of the weight of the DHL Spachtel being used.

Application

DHL Spachtel can be applied by trowel or by hand when wearing appropriate safety gloves. Do not install material below 42°F or above 100°F.

Surface Application

1. Using a spatula, trowel or gloved hand, apply DHL Spachtel over the surface of the cracks or voids.
2. Overfill the repair areas by at least 1/16".
3. Remove any excess material not in the repair area.

Cleaning

1. Clean all tools and surfaces with clean water immediately after application before the mortar has time to dry.
2. Remove surface smears/residue by repeated application of clean water and brushing until all material is removed. Avoid contact of water or brush with repair area.
3. Remove hardened material mechanically.

Finishing and Curing

DHL Spachtel is ready to finish when thumbprint hard. Material can be hand tooled up to 12 hours after mixing. Material can be finished the next day with stone carving tools or grinders. Always tool away from edges, corners, projections, and towards stone.

1. Protect finished repair from weather and direct sunlight by keeping it covered with plastic or burlap for 3 days,
2. For best visual match lightly mist repair area with clean water several times a day, for first 3 days after installation.

Storage

US Heritage Group DHL Spachtel has a shelf life of 6 months when stored at a constant temperature and relative humidity in its original sealed container.

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