

# DISPERSED HYDRATED LIME SPATCHEL

## *Product Data Sheet*

### Product Highlights

DHL-SP is a paste consistency - ready to use mortar made of dispersed hydrated lime putty and filler. It is designed to be used on the surface of injection mortar used to repair cavities and cracks no larger than 3/16 inch in width. It is suitable for use in stone conservation as well as the preservation of wall paintings, frescos, statues and plaster.

Furthermore, it is characterized by excellent workability, with a low degree of shrinkage and a high degree of adhesive capacity. DHL-SP adheres and bonds to the substrate as a carbonate. The material does not contain any latex modifiers, accelerators, or acrylic bonding agents. The range of its physical and mechanical properties is so great that DHL-IM may be individually adapted to each building and each requirement.

### Composition

DHL-SP is composed of dispersed hydrated lime putty, marble powders, mixing water and dispersing aids (<0.4%weight).

### Product Data

Ratio of solid to liquid (weight): 4:1  
Ratio of binding agents to aggregates (vol): 1:4  
Density: app. 3 grams/ccm  
Viscosity: 1.500-2.000 mPas  
Special surface (calculated): 240-270 cm<sup>2</sup>/g  
Total pore volume: 0.26-0.28 cm<sup>3</sup>/g

### Properties

Compressive strength: 3.0 - 4,5 N/mm<sup>2</sup>  
Surface adhesive tensile strength: 0.15 - 0.35 N/mm<sup>2</sup>  
Water absorption 24h (weight %): 12 - 15  
Shrinkage (vol%): 0 - 0.6

Freeze-thaw cycle losses (DIN): 0,2 – 0,8% weight  
Losses after salt blasting test (DIN): 15-38% weight  
E-module 1.500 – 2.000 N/mm<sup>2</sup>

### Working

DHL-SP should be used on the surface of the crack and can be installed by means of a spatula or finger. Air and object temperature should not drop below 42°F and exceed 140°F for minimum of 5 days after application. No working time (non-hydraulic binder), to prevent from drying the container should remain closed. For fine hairline cracks DHL binder may be recommended. DHL-SP is manufactured in Germany.