

# DIAMONDSTONE®

## DIAMONDHD CONDUCTIVE

Troweled epoxy mortar, conductive spark proof system



TECHNIQUEx®

DIAMONDSTONE®

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DiamondHD Conductive is a nominal ¼” (250mil) heavy duty, four-component troweled epoxy mortar conductive system. This system is formulated to provide unlimited moisture tolerance, outstanding impact resistance and reliable conductive performance. DiamondHD Conductive is engineered to disperse uniformly through the system and provide consistent electrical performance for the life of the floor, providing a consistent conductive spark proof resinous system.



## PRODUCT ADVANTAGES

- Unlimited Moisture Tolerance
- Outstanding Impact Resistance
- Qualified LEED® Product

### DIAMONDHD CONDUCTIVE TYPICAL PROPERTIES

Compressive Strength (ASTM C-579)	10,550 psi
Tensile Strength (ASTM C-307)	1,800 psi
Flexural Strength (ASTM C-580)	4,275 psi
Hardness (Shore D) (ASTM D-2240)	85-94
Bond Strength (ASTM D-4541)	425 psi
Impact Resistance (ASTM D-2794)	> 180lbs/in
Abrasion Resistance (ASTM D-4060)	0.1 gm or 100 mg
Flammability (ASTM E-648)	Class II
Water Absorption (ASTM C-413)	0.2%
VOC Content (ASTM D-2369)	< 10 g/l*

The data shown in this document reflect typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

### PRODUCT FEATURES

Spark Generation (NFGS-09965)	No visible sparks
Point-to-Point Resistance and Resistance to Ground (ANSI/ESD STM7.1)	>2.5 x 10 <sup>4</sup> to <1.0 x 10 <sup>6</sup> ohms
Resistance in Combination with a Person (ANSI/ESD STM97.1)	<1.0 x 10 <sup>6</sup> ohms
Walking Voltage Generation (ANSI/ESD STM97.2)	<100 volts
Use with Sensitive Electronics (ANSI/ESD S20.20)	Complies
Use with Explosives (NFPA 77   DoD 4145.26)	Complies

### DIAMOND-VJF JOINT FILLER TYPICAL PROPERTIES

Compressive Strength (ASTM D-695)	12,000 psi
Tensile Strength (ASTM D-638)	6,500 psi
Elongation at Break (ASTM D-638)	15%
Hardness (Shore D) (ASTM D-2240)	55
Bond Strength (ASTM D-4541)	Concrete Failure

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## CHEMICAL RESISTANCE

See DiamondStone Chemical Resistance Guide.

## CLEANING & MAINTENANCE

See DiamondStone Cleaning Instructions.

## SURFACE PREPARATION

Apply only to clean and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants. New concrete should be cured a minimum of 28 days. Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed. Remove any laitance or weak surface layers. Prepare surface by mechanical means to achieve a profile equal to industry standards. All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

## PRECAUTIONS & LIMITATIONS

DiamondStone, LLC recommends the use of slip-resistant with this product. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard. Refer to Material Safety Data Sheet for detailed safety precautions. Do not apply when concrete temperature is less than 50° For greater than 100° F. (Material cures slower at cooler temperatures, and working time will be substantially reduced at higher temperatures.) All components should be stored in a dry place at temperatures between 65° F and 85° F. Confirm product performance in specific chemical environment prior to use. Substrate temperature must be at least 5° F above the dew point.

## ENVIRONMENTAL CONDITIONS

DiamondHD Conductive is only recommended and intended for use within standard environmental conditions. Standard environmental conditions are 60 F to 100 F (surface and air temperature) and 10%-95% relative humidity. Techniquex shall be notified in advance and approve in writing any use outside these standard conditions. Failure to notify and receive prior approval from Techniquex for use in non-standard environments shall void all installation and product warranties.

## EXCEPTIONS

If DiamondStone resinous systems is specified, the system incorporates unlimited moisture control. If DiamondStone is not specified, the system will meet the basis of design on moisture limitations.

## NO-NONSENSE WARRANTY

TECHNIQUEx warrants materials & labor to be free from defects for a period of 5 years from the date of substantial completion of the work.

In the event a defect caused by materials or workmanship appears within 5 years, Techniquex's liability shall be limited to repair or replacement of the work in the defective area only, or at Techniquex's sole election, refund of a pro-rata portion of the contract price for the defective areas. This is the exclusive remedy against Techniquex for the work performed. Notification of a defect must be given to Techniquex in writing during the warranty period.

This limited warranty is exclusive and in lieu of all other warranties of any kind of nature whatsoever, including but not limited to implied warranties of merchantability and fitness for particular purpose, which are specifically excluded and disclaimed. Any and all remedies against Techniquex for defects are limited by this warranty, and in no event shall Techniquex be liable to owner or others for incidental or consequential damages.



Techniquex sets the standard for resinous flooring for all industries that demand a world-class image & unsurpassed performance with floors that last. Techniquex developed the DiamondStone product line to establish the benchmark for quality, finish, and installation excellence.

[www.techniquex.com](http://www.techniquex.com)

877-376-9935

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