

DIAMONDSTONE®

DIAMONDHD ESD

Systems Data Sheet



TECHNIQUEx®

DIAMONDSTONE®

DIAMONDHD ESD

DiamondHD ESD is a 125-250 mil, heavy duty four-component troweled epoxy mortar ESD system. This system is formulated to provide unlimited moisture tolerance, outstanding impact resistance and reliable static control, with body voltage readings of <100 volts. Aesthetically the system has a beautiful wet look finish. DiamondHD ESD is engineered to disperse the charge uniformly through the system and provides consistent electrical performance for the life of the floor.



System Benefits

- Unlimited Moisture Tolerance
- Chemical Resistant
- Anti-Microbial
- Lifetime Conductivity
- Impact Resistant
- Qualified LEED® Product

Electrical Properties

Surface Resistance (ESD - S7.1)	< 1.0 megohms
Dissipative (ANSI/ESD S7.1) Surface Resistivity	10^6 – 1.0×10^9 ohms
Conductive (ANSI/ESD S7.1) Surface Resistivity	2.5×10^4 x 10^6 ohms
Conductive (NFGS-09965) Spark Generation	No visible sparks
Conductive (ANSI/ESD STM97.1) ESD Resistance Measurement in Combination with a Person	< 1.0×10^6 ohms
Conductive (ANSI/ESD STM97.2) Volt Measurement in Combination with a Person	< 100 volts
Conductive (ANSI/ESD S20.20) Protection of Electrical and Electronic Parts	Complies
Conductive (NFPA 77 DoD 4145.26) Recommended Practice on Static Electricity	Complies
Meets ESD Association Guidelines	Complies
Meets EOS Specifications	Complies

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TechniqueX sets the standard for resinous flooring to meet the demands of a world class image with unsurpassed performance.

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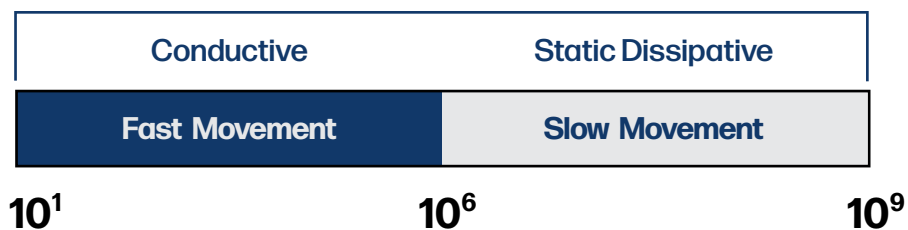
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DIAMONDHD ESD

ANTI-STATIC



Physical Properties

Compressive Strength (ASTM C579)	13,700 psi
Flexural Strength (ASTM C580)	4,275 psi
Tensile Strength (ASTM C307)	1,800 psi
Pull-Off Adhesion (ASTM D4541)	400 psi or Concrete Failure
Impact Resistance	120 in. lbs
Shore Hardness Shore D (ASTM D2240)	85
Tensile Elongation (ASTM D2370)	5%
Abrasion Resistance (ASTM D4060)	40 mg/Loss 1,000 cycle
Abrasion Resistance (ASTM D4060)	0.04 g/Loss 1,000 cycle
Water Absorption (ASTM D570)	< 0.05%
Indoor Air Quality (CA 01350)	Complies
Microbial Resistance (ASTM G21)	Passes, 0 growth
Flame Spread/ Critical Flux (ASTM E648)	Class 1
Flame Spread/ Rate of Burning (ASTM D635)	Self-extinguishing
VOC's	< 5 g/ltr
Primer Benzyl Alcohol Content	0%

DIAMONDHD ESD

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, Inc. 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.

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.

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