

DESCRIPTION

Stonhard ATK Primer is a two-component, epoxy-based, conducting primer. It is applied to a properly prepared and primed surface for use with Stonlux ESD and Stonkote AT5. ATK Primer provides a conducting base for consistent electrical properties for the Stonlux ESD system. ATK Primer provides a range of resistance from 2.5×10^4 to 1×10^6 ohms.

USES, APPLICATIONS

Stonhard ATK Primer is a conductive material designed for use with Stonlux ESD overlayment and Stonkote AT5 coatings.

PACKAGING

ATK Primer is packaged in units for easy handling. Each unit consists of:

½ carton containing:

- (2) foil bags of Amine (1 foil bag used per unit)
- (1) 5-gallon pail of Resin

COVERAGE

One unit of ATK Primer will cover 600 sq. ft./56 sq. m of primed substrate over Stonclad or any other unsealed mortar plan for 500 sq. ft. coverage per unit.

STORAGE CONDITIONS

Store both components of ATK Primer from 60 to 85°F/16 to 29°C in a dry area. Avoid excessive heat. Do not freeze. The shelf life is 3 years in the original, unopened container.

SUBSTRATE PREPARATION

ATK Primer should only be applied to a properly prepared and primed surface that is free of contaminants and voids. The Standard/SL Primer must be fully cured and checked for pinholes prior to applying the ATK Primer. If the Standard/SL Primer has cured for more than 48 hours, it must be sanded and vacuumed clean to assure an adequate bond.

MIXING

Note: Do not start mixing until the surface is properly primed and pinhole free, with the temperature of both the ATK Primer and the surface at least 60°F/16°C.

Pre-mix the resin for 30 seconds to redistribute the graphite and fibers. Empty the contents of amine into the resin container. Mix with a slow-speed drill and Jiffy Mixer for 1-1/2 to 2 minutes.

POT LIFE

After mixing, ATK Primer has a working time of approximately 30 to 35 minutes at 70°F/21°C. The working time may vary depending on ambient and surface conditions.

APPLYING

ATK Primer must be applied using a rubber squeegee and backrolled with a medium nap roller. It is important to obtain the proper coverage. Application of the Stonlux overlayment or Stonkote AT5 may proceed only after the ATK primer has cured tack-free, the surface has been checked for voids, and the conductivity range has been verified.

CURING

The surface of ATK Primer will be tack-free in 12 hours at 77°F/25°C. At this time, overlayment can begin.

RECOMMENDATIONS

- Minimum ambient and surface temperature is 60°F/16°C at the time of application.
- Apply only to a clean, sound and properly prepared surface.
- Clean tools immediately with either scouring pads and water, or acetone. Hardened material will require mechanical removal.

PHYSICAL CHARACTERISTICS

Pot Life	30 to 35 minutes @ 70°F/21°C
Application Temperature Range	Ambient and substrate temperatures should be between 60°F/16°C and 90°F/32°C
VOC	97 g/l (ASTM D-2369)
Flash Point	Part A > 203°F/95°C Part B 106°F/41°C

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens.

PRECAUTIONS

- Use these materials only in strict accordance with the manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations.
- The use of NIOSH approved respirators using an organic vapor/acid gas cartridge is mandatory.
- The selection of proper protective clothing and equipment will significantly reduce the risk of injury. Body covering apparel, safety goggles or safety glasses and impermeable gloves are required.
- In case of contact, flush area with water for 15 minutes and seek medical attention. Wash skin with soap and water.
- If material is ingested, immediately contact a physician. **DO NOT INDUCE VOMITING.**
- Use only with adequate ventilation. Inhalation of vapors may cause severe headaches, nausea and possibly unconsciousness.
- During prep-work of floor substrate or mixing of Stonhard product while adding aggregate, dust masks must be worn.
- ATK Primer is flammable, keep away from heat and all sources of ignition. **DO NOT SMOKE!**

NOTES

- Safety Data Sheets for ATK Primer are available online at www.stonhard.com under Products or upon request.
- A staff of technical service engineers is available to assist with application, or to answer questions related to Stonhard products.
- Requests for technical literature or service can be made through local sales representatives and offices or corporate offices located worldwide.

STATIC CONTROL PROPERTIES

ATK Primer has been specifically designed to comply with the ANSI/ESD S20.20 specification for the protection of electrical and electronic parts, assemblies, and equipment.

Surface Resistance <0.5 megohms
(ESD-S7.1)

Body Voltage Generation <100 volts*
(ESD STM97.2)

*Body Voltage Generation is not solely a function of flooring conductivity but is a combination of many factors, including footwear and environmental conditions. Your specific environment and choice of footwear may yield slightly different results.

Electrostatic Discharge (ESD) flooring has a variety of applications from microchip manufacturing to military ordinance.

Therefore, each facility may have unique resistance requirements based on their individual ESD programs. It is important to identify the resistance requirements and test method used for each project prior to installing any ESD flooring.

ELECTRICAL TESTING

Once the primer is tack-free, it must be tested for proper conductivity. Point-to-point and point-to-ground readings should be taken, and all values should fall below 5.0×10^5 ohms(Ω).

Note: Stonhard tests all floors in accordance with the ESD S7.1 test method. Various other ESD standards and test methods are available, and they each have their own unique parameters. Contact the Stonhard's technical service department if you wish to use a different test method.

IMPORTANT:

Stonhard believes the information contained here to be true and accurate as of the date of publication. Stonhard makes no warranty, expressed or implied, based on this literature and assumes no responsibility for consequential or incidental damages in the use of the systems described, including any warranty of merchantability or fitness. Information contained here is for evaluation only. We further reserve the right to modify and change products or literature at any time and without prior notice.

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