

PRODUCT DESCRIPTION

Conductive Novolac Primer is a two-component, Novolac epoxy based, conducting primer system. It is applied to a properly prepared and primed surface for use with Stonchem 691. Conductive Novolac Primer provides a conducting base for consistent electrical properties of the Stonchem 691. Conductive Novolac Primer in conjunction with Stonchem 691 provides a range of resistance from 2.5×10^4 to 1×10^6 ohms.

USES, APPLICATIONS

Conductive Novolac Primer is designed for use when static control properties and increased chemical resistance are necessary.

PACKAGING

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

- 1 carton containing:
 - (2) 1 gallon cans of Part B (conducting epoxy resin)
- 1 carton containing:
 - 2 bags of Part A (curing agent)

COVERAGE

One unit of Conductive Novolac Primer will cover 56 m² of primed substrate. One batch of Conductive Novolac Primer is made up of one bag of Part A and one can of Part B. Each batch will cover 28 m².

STORAGE CONDITIONS

Store both components of Conductive Novolac Primer between 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 PREPERATION

Conductive Novolac Primer should only be applied to a properly prepared and primed surface that is free of contaminants and voids.

MIXING

Pre-mix the resin for 30 seconds to redistribute the graphite and fibres and then empty the resin into an appropriate mixing container. Next, pour the amine into the empty resin can and mix for 15-30 seconds to try and collect all of the remaining fibre from inside the can. Empty the amine into the mixing container containing the resin. Mix with a slow speed drill and Jiffy Mixer (Product #87024) for 1 ½ to 2 minutes.

PHYSICAL CHARACTERISTICS

Pot Life	20 to 25 minutes @ 21°C
Application Temperature Range	Ambient and substrate temperatures should be between 16°C and 32°C
Solids Content	81%
Tensile Strength (ASTM D-638)	22 N/mm ²
Tensile Modulus (ASTM D-638)	110 N/mm ²
Percent Elongation (ASTM D-638)	20%
Substrate Moisture Tolerance	<80% RH
V.O.C (ASTM D-2369)	124 g/Liter
Flash Point	Part A 93°C Part B 41°C

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

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

POT LIFE

After mixing, Conductive Novolac Primer has a working time of approximately 25 minutes at 21°C. The working time may vary depending upon ambient and surface conditions.

APPLYING

Conductive Novolac 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 Stonchem 691 may proceed only after the Conductive Novolac Primer has cured tack-free and the conductivity range has been verified.

CURING

The surface of Conductive Novolac Primer will be tack-free in 8 hours at 21°C. At this time, the primer can be tested for conductivity and overlayment can begin.

RECOMMENDATIONS

- Minimum ambient and surface temperature is 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 mineral spirits. Hardened material will require mechanical removal.

PRECAUTIONS

- Both liquid Parts A and B are skin and eye irritants – avoid contact. The use of NIOSH/MSHA approved respirators, safety goggles and impervious gloves is recommended.
- In case of contact, flush the area with water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Use only with adequate ventilation.

NOTES

- Material Safety Data Sheets for Conductive Novolac Primer are available on line at www.stonhard.com under Tech Info 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 service or literature can be made through local sales representatives and offices, or corporate offices located worldwide.

STATIC CONTROL PROPERTIES

Conductive Novolac 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 (ESD-S7.1)	<0.5 megohms
Body Voltage Generation (ESD STM97.2)	<100 volts*

****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.

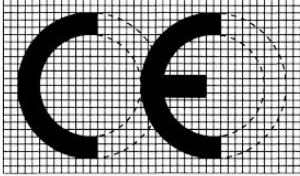
ELECTRICAL TESTING

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. Please contact the Stonhard's technical service department if you wish to use a different test method

CE MARKING

The harmonized European Standard EN 13813 "Screed material and floor screeds - Screed materials - Properties and requirements" specifies the requirements for screed materials for use in floor construction internally. Resinous flooring systems as well as resinous screeds fall under this specification they have to be CE-labelled as **per Annex ZA., Table ZA.1.5 and 3.3** and fulfil the requirements of the given mandate of the Construction Products Regulation no. 305/2011


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EC-DOP-2013.09.013
EN 13813 SR-B2.0
Synthetic resin primer system for use internally in buildings ¹ (system as per Product Data Sheet)
Release of corrosive substances: SR
Adhesion strength by pull-off test: > B2.0
Chemical resistance: CRG ²
¹ Tested as part of a system build-up with Stonchem 691
² CRG: see Stonhard Chemical Resistance Guide

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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