



Novaguard 5090

Application Guide

Application Instructions

Refer to Novaguard 5090 data sheet for properties and use. To obtain the maximum performance for which the Novaguard 5090 is formulated, strict adherence to all application instructions, precautions, conditions, and limitations is necessary. If conditions exist that are not within the requirements or limitations described, consult your PPG representative.

SURFACE PREPARATION: Coating performance is proportional to the degree and quality of the surface prep. Prior to coating, the surface must be clean, dry and free of all contaminants including salt deposits.

STEEL – Surface must be prepared in accordance with SSPC-SP10 Near-White Blast Cleaning to achieve a dense, angular profile of 4 mils (101 microns).

CONCRETE - Concrete must be cured a minimum of 28 days prior to application. Prior to mechanical preparation, oil, grease, and any other contaminants must be removed with an industrial degreaser and then dried. All loose and/or damaged concrete must also be removed prior to surface preparation. Surface must be prepared to a CSP 3-5 roughness for proper adhesion. **NOTE:** Novaguard 5090 will tolerate damp concrete but not standing or pooling water.

ENVIRONMENTAL CONDITIONS:

Optimum material and surface temperatures are between 65°F (18°C) and 80°F (27°C). Store materials within this range prior to use. Temperatures below or above these temperatures will affect cure times.

Application under direct sunlight and rising surface temperatures can result in bubbling from out gassing. Provide temporary shade for areas that have been exposed to direct sunlight for 24 hours prior to application and keep shaded until initial set of the material has taken place. In some applications it may be necessary to do installation during the evening and night to avoid out gassing.

MIXING: Novaguard 5090 is a 3-component system available in 1-gallon and 3-gallon kits. Kits consist of Part A resin, Part B hardener and Part C fill. Mix only complete kits. Parts A & B are extremely thick and will require a Margin Trowel or plastic scraper blade to remove product from container. Combine Parts A & B in a clean pail and mix with a 4.5" Jiffy type mixer blade for 1 to 2 minutes. Then add Part C Fill and mix an additional minute until thoroughly mixed and wetted out.

Application: Novaguard 5090 is a self-priming, trowel-applied block filler and repair material. After material is mixed, immediately remove it from the container onto a mortar board or similar, to extend pot-life. NOVAGUARD 5090 with regular cure has an approximately 40-minute pot-life at 72°F (22°C). Apply the NOVAGUARD 5090 with a metal finishing trowel for large areas or a putty knife for smaller patching. The NOVAGUARD 5090 can be smoothed out to remove trowel marks with a rubber window squeegee wetted out with tap water. Do not apply NOVAGUARD 5090 at a thickness greater than 1". After the material has cured, it is recommended to lightly grind or sand the surface to provide a bonding profile for additional coating applications which can be either an epoxy or urethane coating.

NOTE: Never close or seal containers with mixed materials as they will heat up and can potentially explode.

Packaging and Coverage Rates

1-Gal. Kit :	13 sq. ft. at 1/8" thick
3 Gal. Kit:	40 sq. ft. at 1/8" thick
Bulk Pack:	400 sq. ft. at 1/8" thick

CURE TIME: Minimum cure for NOVAGUARD 5090 regular cure is 18 hours at 72°F (22°C) and the maximum cure time before recoat or topcoat is 24 hours.

CLEAN-UP: Immediately after use, clean all mixing equipment and application tools with Amercoat 12.

CAUTION: Use the NOVAGUARD 5090 with plenty of ventilation. If being applied in confined space observe the following precautions to prevent hazards of fire, explosions or damage to health.

1. Circulate adequate fresh air continually during application and curing.
2. Use proper face masks and explosion proof equipment.
3. Prohibit all flames, sparks, welding and smoking.

For specific information on hazardous ingredients, required ventilation, possible consequences of contact and proper PPE equipment refer to the SDS documents.

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