



NovaTuff FC-200 Epoxy Floor Coating (formerly AES-200)

PRODUCT INFORMATION SHEET

PRODUCT DESCRIPTION

NovaTuff FC-200 Epoxy Floor Coating is a high-solids polyamide-epoxy resin. The formulation includes a long pot life as well as flexible properties, which allows it to withstand extreme abrasive conditions. **NovaTuff FC-200** is a decorative and protective epoxy coating especially developed to protect and seal concrete floors. It is best suited for horizontal surfaces.

ADVANTAGES

- Impact and abrasion resistant
- Durable, easy to clean
- Chemical resistant
- Excellent resistance to various solvents, hydrocarbons, acids and alkalis, particularly food acids
- Excellent outdoor durability
- Excellent binder for decorative color flakes
- Suitable for use in USDA inspected facilities

TYPICAL USES

NovaTuff FC-200 provides a protective coating for floors in hangers, warehouses, manufacturing facilities, parking garages, food preparation areas, and much more. It can be used where moist areas may prevent the use of other coatings. It is ideally suited for use in commercial, industrial, and residential surroundings.

LIMITATIONS

- Slab on grade requires vapor/moisture barrier.
- Substrate must be structurally sound, dry and free of bond inhibiting contaminants.
- During installation and initial cure cycle substrate and ambient air temperature must be at a minimum of 50°F.
- Substrate temperature must be at least 5°F above the dew point.
- Maximum dry surface temperature not to exceed 160°F.
- Strictly adhere to published coverage rates.
- Maximum time between coats is 36 hours to achieve good adhesion.

SURFACE PREPARATION

To begin, the surface should be etched to provide a profile or "tooth" for optimal adhesion. Surfaces must be clean, free of grease, oil, wax, mastic compounds, paint, waterproofing compounds, form release materials, and all other contaminants prior to application. **NovaTuff FC-200** will not develop optimum adhesion to concrete unless loosely bound materials are first removed from the surface by abrading. Shot blasting, scarifying, grinding, sand-blasting or other

abrasive mechanical means are recommended. Acid etching is also an option but not recommended because of environmental concerns or accidental damage to non-target areas. Contaminated concrete must be sufficiently removed or thoroughly cleaned with a cleaning agent appropriate for the removal of petroleum-based products.



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New concrete and masonry should not be coated for at least 28 days to permit the concrete or mortar to cure and dry out. Concrete should be visually inspected and tested for moisture content before coating.

Proper inspection and preparation of the substrate to receive NovaTuff Epoxy floor coating material is critical. The preparation procedures above are general guidelines. Detailed preparation methods are available through SSPC at www.sspc.org or NACE at www.nace.org.

PRODUCT CHARACTERISTICS

Color and Finish: NovaTuff Standard Colors
Solids: 85% Solids by weight
Mix Ratio: 3:1

PERFORMANCE TESTING RESULTS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 4000 cycles	1.3 mils wear 0.22 g loss
Compression	C579-96, 2500 PSI	Pass
Adhesion	ASTM D4541 950 psi concrete failure	Pass
Flammability		Self-extinguishing over concrete
Hardness	ASTM D 3363	6H - Pass
Impact Resistance	ASTM D2794 Direct, inch pound greater than 56	Pass
Food Contact	FDA 21-CFR 175-300	Compliant

MIXING

The mixing of parts A & B is very important! **NovaTuff FC-200** has a mixing ratio of 3 parts "B" to 1 part "A". Use a power mixer to thoroughly combine both parts. Mix for a minimum of one minute per gallon. Allow idle activation time for a minimum of 15 minutes.

APPLICATION

NovaTuff FC-200 should be applied in well-ventilated areas. Surfaces should be free of foreign matter. DO NOT apply product near an open flame.

Brush, 3/8" nap roller cover, squeegee, or airless spray equipment may be used to apply **NovaTuff FC-200**. Surface configuration, weather, or area surroundings will dictate application method.

1. Premix **Base** using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.
2. Add 1 part **Activator** to 3 parts **Base** by volume. Mix with low speed drill and Jiffy blade for three to five minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.
3. Apply **NovaTuff FC-200** using a squeegee or trowel and back roll with a 3/8" nap roller at a spread rate of 100 square feet per gallon to yield 12-14 mils WFT making sure of uniform coverage. Take care not to puddle materials and insure even coverage.
4. Allow to cure 24 hours minimum before opening to traffic and water exposure.

To get dry film of:	Apply Sq. Ft/Gal:
4mils	300 sq. ft.
8 mils	150 sq. ft.
12 mils	100 sq. ft.

DO NOT apply product heavier than 100 sq. ft. per gallon per coat. For a heavier dry film, apply necessary number of coats. Use of thinner increases possibility of sag and reduces dry film thickness. **NovaTuff FC-200** may be applied to damp surfaces, but it is best to have a dry surface if possible. Allow **NovaTuff FC-200** to become tack-free before applying additional coats. *Caution! Without the use of aggregate in **NovaTuff FC-200**, the surface will be slippery when wet!*

Note: Epoxy materials will appear to be cured and "dry to touch" prior to full chemical cross linking. Allow epoxy to cure 2-3 days prior to exposure to water or other chemicals for best performance.

WARRANTY

NovaTuff Coatings warrants our products to be free of manufacturing defects in accord with applicable quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by NovaTuff Coatings.

NovaTuff Coatings makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. NovaTuff Coatings assumes no responsibilities for injury from the use of this product

NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY NOVATUFF COATINGS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

CLEANUP

Clean up mixing and application equipment immediately after use with lacquer thinner, toluene or xylene. Observe all fire and health precautions when handling or storing solvents. Use Apple Cider Vinegar to clean hands and skin. **Do not allow NovaTuff FC-200 to remain on tools! Once it sets and is cured, it is difficult to remove.**

THINNING

Thinning is typically not needed. If thinning is necessary, add no more than 1 quart of Xylene per 5 gallons of **NovaTuff FC-200**. Thinner must only be added after the activation has been completed.

PACKAGING INFORMATION

4 Gallon Kits	
3 cans containing 1 gallons Base	Part B
1 cans containing 1 gallons Activator	Part A
20 Gallon Kits	
5 pails containing 3 gallons Base	Part B
1 pails containing 5 gallons Activator	Part A

STORAGE

Store in accordance with instructions, with seals and labels intact and legible. Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. 12 months shelf life is expected for products stored between 40°F (4.5°C) - 100°F (38°C). Do not allow products to freeze.

SAFETY

This product (and any recommended thinners) contains solvents and/or chemical ingredients. Adequate health and safety precautions should be observed during storage, handling, use, and drying periods. For safe usage, user is specifically directed to consult the current Material Safety Data Sheet for this product. When using this product in a confined space or closed area, consult the OSHA or ANSI bulletins on safety requirements.

DISCLAIMER

Refer to the MSDS sheet before use. The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of NovaTuff Coatings. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Published technical data and instructions are subject to change without notice. Contact your local Nova-Tuff distributor or technical representative for additional technical data and instructions.

OSHA Status: This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

Disclaimer: The information and recommendations contained herein are based on data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.