



## NovaTuff PC-400 Protective Coating (formerly AES-400)

### PRODUCT INFORMATION SHEET

#### PRODUCT DESCRIPTION

**NovaTuff PC-400 Protective 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 PC-400** is a decorative and protective epoxy coating especially developed to protect metals of all types.

#### ADVANTAGES

- Impact and abrasion resistant
- Durable, easy to clean
- Chemical resistant
- Suitable for use in USDA inspected facilities

#### TYPICAL USES

**NovaTuff PC-400** is a self-priming protective coating for metal walls, tanks, pipes, floors, stairs, decks, equipment, and much more. **NovaTuff PC-400** can be used where dampness may prevent the use of other coatings. **NovaTuff PC-400** is used in commercial and industrial surroundings.

#### RESISTANCE

**NovaTuff PC-400** has excellent resistance to various solvents, hydrocarbons, acids, alkalis, saltwater, and fresh water.

#### 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.

Metal must be free of mill scale, rust, paint, oil, grease, oxides, etc. An abrasive type of preparation is recommended to produce a profile for the **NovaTuff PC-400** to adhere to.

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



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#### PRODUCT CHARACTERISTICS

**Color and Finish:** NovaTuff Standard Colors  
**Solids:** 83% Solids by weight  
**Mix Ratio:** 3:1

#### PERFORMANCE TESTING RESULTS

Test Name	Test Method	Results
<b>Abrasion Resistance</b>	ASTM D4060, CS17 wheel, 4000 cycles	2.1 mils wear 0.35 g loss
<b>Compression</b>	C579-96, 2500 PSI	Pass
<b>Adhesion</b>	ASTM D4541 2035 psi adhesion failure on metal	Pass
<b>Flammability</b>		Self-extinguishing over concrete
<b>Hardness</b>	ASTM D 3363	5H - Pass
<b>Impact Resistance</b>	ASTM D2794 Direct, inch pound greater than 45	Pass
<b>Food Contact</b>	FDA 21-CFR 175-300	Compliant

#### MIXING

The mixing of parts A & B is very important! **NovaTuff PC-400** has a mixing ratio of 3 parts "B" to 1 part "A". Agitate each part separately before combining the two. 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. If thinning is necessary, then Xylene should only be added after the activation is complete. For general purposes, no more than 1 pint per gallon of solvent should be added to the mixture.

#### APPLICATION

**NovaTuff PC-400** 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 or airless spray equipment may be used to apply **NovaTuff PC-400**. 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 PC-400** 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:
6.5 mils	200 sq. ft.
13 mils	100 sq. ft.

DO NOT apply product heavier than 100 sq. ft. per gallon per coat (8 wet mil). For a heavier dry film, apply necessary number of coats. Use of thinner increases possibility of sag and reduces dry film thickness. **NovaTuff PC-400** may be applied to damp surfaces, but it is best to have a dry surface if possible. Allow **NovaTuff PC-400** to become tack-free before applying additional coats. Caution! Without the use of aggregate in **NovaTuff PC-400**, 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.

#### 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-400 to remain on tools! Once it sets and is cured, it is difficult to remove.**

#### 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.

#### CURING TIME

Pot Life	4 hours @ 80°F
Drying Time	6 hours @ 80°F
Total Cure	36 hours @ 80°F

#### THINNING

Thinning is typically not needed. If thinning is necessary, add no more than 1 quart of Xylene per 5 gallons of **NovaTuff FC-400**. 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.