



# NUROFAST 52

The STEBBINS Engineering and Manufacturing Company  
Watertown, NY USA  
<http://www.StebbinsEng.com>

## PRODUCT INFORMATION

### DESCRIPTION

NUROFAST 52 is a chemical-resistant, highly resilient, elastomeric, silica-filled polyurethane material. It is solvent-free and cures in ambient temperatures. NUROFAST 52 is supplied in two (2) parts - paste and hardener, for mixing at the time of use. It is suitable for use in many applications, such as:

- Mortar, for chemical-resistant masonry.
- Membrane, behind ceramic wall and floor linings.
- Joint compound, where the flexible properties of the material can be utilized.

NUROFAST is thixotropic and may be applied on floors, on vertical surfaces, or overhead. It may be applied by troweling or by caulking gun.

NUROFAST 52 Membrane has a long history throughout the Flue Gas Desulphurization, Pulp & Paper, Chemical and Metal/Mineral Refining Industries in a variety of applications. Its history is as a corrosion resistant membrane in concrete or steel vessels, in aggressive chemical applications, many involving elevated temperatures and low pressure. It especially has excellent resistance to process stream containing high chlorides.

### COMPONENT PACKAGING

A unit of NUROFAST 52 is supplied as two (2) separately packaged components:

MATERIALS	CONTAINERS	WEIGHTS
NUROFAST 52 Paste	3-gallon (11.4 L) pail	18.7 lb. (8.5 kg) Net
NUROFAST 52 Hardener	1-pint (0.5 L) can	1.3 lb. (0.6 kg) Net

### TYPICAL PHYSICAL PROPERTIES

Physical State	Solid (Paste)
Composition	Elastomeric Membrane
Color	Gray, light brown, tan, or white
Density	89 lb./ft <sup>3</sup> (1426 kg/m <sup>3</sup> )
Coverage on Steel: 1/8" (3.2 mm) Thickness	0.91 lb./ft <sup>2</sup> (4.44 kg/m <sup>2</sup> )
3/16" (4.8 mm) Thickness	1.32 lb./ft <sup>2</sup> (6.44 kg/m <sup>2</sup> )
Coverage on Concrete: 1/8" (3.2 mm) Thickness	1.11 lb./ft <sup>2</sup> (5.42 kg/m <sup>2</sup> )
3/16" (4.8 mm) Thickness	1.67 lb./ft <sup>2</sup> (8.15 kg/m <sup>2</sup> )
Tensile strength: ASTM D412-15a	781 PSI (5.4 MPa)
Total Elongation at Failure (%)	42.0%
Bond strength to steel (without primer)	180 PSI (1.2 MPa)
Bond strength to steel (with primer)	200 PSI (1.4 MPa)
Bond strength to concrete (without primer)	CA 200 (1.4 MPa)

<b>STEBBINS</b>	<b>NUROFAST 52</b>
The STEBBINS Engineering and Manufacturing Company Watertown, NY USA <a href="http://www.StebbinsEng.com">http://www.StebbinsEng.com</a>	<b>PRODUCT INFORMATION</b>

**WORKING AND SETTING TIMES** (approximate)

NUROFAST 52 Membrane has a working time of approximately one (1) hour at 75°F (24°C). NUROFAST 52 Membrane will set within two hours at this temperature.

**SURFACE PREPARATION**

NUROFAST 52 adheres well to most surfaces provided they are clean, dry and free from oils. In certain circumstances, installations of NUROFAST 52 may require primer products be applied to the application substrate. The type of surface preparation and/or primer requirement required depends on the service conditions, substrate and lining specifications.

**APPLICATION**

NUROFAST 52 is applied over properly prepared and primed substrate in multiple trowel coats of minimum 1/16" (2 mm) thick per coat to form a monolithic membrane with a normal finished thickness of 1/8" (3 mm) minimum to nominal 3/16" (5 mm). Individual coating layers may have titanium dioxide added to the batch to differentiate layers during application. In locations where layers will overlap, Permalink Primer may be used.

**STORAGE**

Do not store in direct sunlight. Store in a cool, dry area. Keep the container tightly closed until use.

**SAFETY PRECAUTIONS/DISCLAIMER**

Mixes and applications of this product present a number of hazards. The purchaser and user must read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

All data contained in this Product Information sheet are averaged results of ASTM tests on laboratory prepared samples. Reasonable variations can be expected. The data should not be used for specification purposes.

While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, **nothing contained herein shall constitute any warranty, express or implied, including any implied warranty of fitness for a particular purpose or any implied warranty of merchantability with respect to the products described herein and any such warranties are expressly disclaimed.**

We recommend that the purchaser or user independently determine the suitability of any of our products for their intended use. No statement, information or recommendation with respect to any of our products, whether contained herein or otherwise communicated, shall be legally binding unless expressly set forth in an executed written agreement.

**End of PI-16**