

## Description

Republic N-700A is a one-component liquid elastomeric air-curing neoprene coating used by the military in the protection of equipment on board ships. N-700A has a long performance record of fighting corrosion and resisting abrasion in the most extreme conditions.

N-700A protects against chemical fume, splash, and salt spray. Quick and easy to apply, in-house maintenance personnel can economically protect areas most likely to be affected by corrosion and weather as well as equipment, new or old. With the addition of grit, N-700A provides a non-slip surface for walk areas.

## Uses

- All steel work
- Rubber belts
- Tank exteriors
- Plating rooms
- Pipes, ductwork
- Joints and seams
- Electrical parts
- Railings, catwalks
- Concrete, wood
- Insulation

## Advantages

- N-700A Neoprene Coating quickly air cures for almost immediate protection.
- Coating is waterproof and will not crack or check providing a tough, flexible protective film that is unaffected by extreme temperatures (200°F or 93°C).
- Easy to apply and repair for long service life.
- Saves time and money with less-frequent applications.

## Surface Preparation

**METAL** – Clean surface free of all scale, rust particles, oil, dirt, grease, etc. Although sandblasting is the best method of cleaning, other methods such as wire brushing can be substituted. Apply primer and allow minimum of 1 hour drying time.

**CONCRETE** – Prepare surface with a light sandblast or acid etch. If acid etch is used, rinse with a light scrubbing action. Allow the treated surface to dry thoroughly. Remove all dust if blasting is used. Apply primer and allow minimum 1 hour drying time.

**WOOD** – Clean thoroughly and make sure surface is dry. Wipe with Republic N-450-1 Thinner & Cleaner.

## Technical Information

<b>Colors</b>	Black and gray.
<b>Application</b>	Roller, brush, spray or dip.
<b>Coverage</b>	395 sq. ft./gal./dry mil (black), 374 sq. ft./gal./dry mil (gray).
<b>Unit Coat Thickness</b>	3 mils/coat.
<b>Primer</b>	N-11 or N-15.
<b>Thinner &amp; Cleaner</b>	N-450-1.
<b>Storage Stability</b>	1 yr. unopened @ 74°F (23°C) from date of manufacture.
<b>Flash Point</b>	40°F (4°C) (ASTM D 3278).
<b>Tensile Strength</b>	In excess of 1,000 psi.
<b>Elongation</b>	In excess of 300%.
<b>Specific Gravity</b>	1.0 (black), 1.1 (gray).
<b>Density</b>	8.6 lbs./gal (black), 8.8 lbs./gal (gray).
<b>Solids Content</b>	36.9–37.0 (by weight), 23.3–24.7 (by volume).
<b>Available In</b>	Quarts, 1, 5, and 55 gallon containers.

# N-700A

## Neoprene Coating

### Primer Application

Use Republic N-11 Primer on: concrete, wood, steel, and galvanized metal surfaces.

Use Republic N-15 Primer on: non-ferrous metal, stainless steel, polyester glass laminates, and glass.

Stir the contents of the can containing the primer and apply 1 thin even coat to the clean surface. It is recommended that 2 coats of Primer be applied on wood and concrete surfaces. Allow to dry a minimum 1 hour. Under adverse conditions, such as low temperatures, poor air circulation, etc., up to 4 hours may be necessary. This applies to all surfaces.

Natural rubber surfaces require no primer. Rubber should be sanded lightly and wiped with N-450-1.

N-700-A Neoprene Maintenance Coating is recommended for walking surfaces only when a skid-proof feature is added.

### Application Instructions

BY BRUSH – Use wet brush at all times. Avoid scrubbing action. A minimum of 2 coats should be used for all applications. Allow about 30 minutes between coats.

BY ROLLER – Roller apply the N-700A in the usual manner, but keep the roller wet at all times. It is characteristic of N-700A when roller applied to have a somewhat orange-peel surface skin appearance, which in no way detracts from the serviceability of the coating.

BY COLD SPRAY APPLICATION – It should be noted that it is not possible to spray N-700A so that cobwebbing does not occur. In applications where absolutely no cobwebbing can be tolerated, brush or roller application is preferred. Use standard pressure spray equipment; fluid pressure: 10–15 psi. Spray full strength or thinned with approximately 1 pint N-450-1 per gallon of N-700A. Clean equipment immediately after use with N-450-1.

FOR NON-SKID APPLICATION – After priming, apply 2 coats of N-700A. While second coat is still wet, cover surface completely with grit. Under ideal conditions, allow a minimum of 4 hours for drying time. Twelve to fourteen hours is recommended for best results. Any loose grit should then be removed by light sweeping. Apply topcoat of N-700A and allow minimum overnight drying before use.

### Limitations

Not to be used as an architectural coating. Not intended for immersion service. Product will be softened by ketones, esters, aromatics, chlorinated solvents, and certain other potent solvents.

## The Republic Powdered Metals Coating & Lining Systems Philosophy

There are no short-cuts to success and no “cure-all” products in the corrosion protection business. A “system” approach is the only means to achieving long-term protection. Republic has the necessary primers, adhesives, sealants, and caulking compounds that are compatible with a wide variety of protective coatings and linings to provide a complete system of protection for abrasion, corrosion and chemical attack problems.

The statements provided concerning the materials shown are intended solely as a general guide for material usage and are believed to be true and accurate. Since the manner of use is beyond our control, Republic DOES NOT MAKE NOR DOES IT AUTHORIZE ANYONE TO MAKE ANY WARRANTY OR MERCHANTABILITY OR FITNESS FOR ANY PURPOSE, OR ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION, EXPRESSED OR IMPLIED, CONCERNING THIS MATERIAL EXCEPT THAT IT CONFORMS TO REPUBLIC'S PRODUCT SAMPLE. Buyer and use accept the product under those conditions and assume the risk of failure, injury of person or property and loss or liability resulting from the handling, storage or use of the product, whether or not it is handled, stored, or used in accordance with directions or specifications. UNDER NO CIRCUMSTANCES SHALL REPUBLIC BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM ANY BREACH OF WARRANTY. IN ALL CASES, REPUBLIC'S LIABILITY IS LIMITED, AT REPUBLIC'S OPTION, TO THE REPLACEMENT OF GOODS, OR THEIR VALUE, PROVEN TO BE DEFECTIVE IN MANUFACTURING.