

**Nano Shield™**

**NANO SHIELD™  
HARDENER (formerly PREFIN ADDITIVE)**

**DESCRIPTION AND USES**

Nano Shield™ Hardener is a unique curative designed to allow Nano Shield Rapid Cure and Nano Shield Advanced Floor Finish to accelerate cure time, enhance adhesion, and provide durability, especially to prefinished wood flooring. Use of the Hardener speeds the cure time from 10 days to 4 days.

Nano Shield Rapid Cure and Nano Shield Advanced Floor Finish with Nano Shield Hardener is recommended for use on residential wood floors: kitchens, living rooms, bedrooms, family rooms and entryways. It is also recommended for use on commercial wood floors to include retail stores, shopping centers, offices, restaurants, churches, classrooms, hotels, etc.

**FEATURES**

- Provides durability
- Accelerates cure time
- Enhances adhesion to prefinished wood flooring
- Works with all Nano Shield Rapid Cure and Nano Shield Advanced Floor Finishes

**PRODUCTS**

| SKU    | Description | Container Size |
|--------|-------------|----------------|
| 137195 | Hardener    | 8-ounces       |

**PRODUCT APPLICATION**

**Before using, read all directions and precautions carefully.**

**SURFACE PREPARATION**

For best results, use at temperatures above 60°F (16°C) and 80°F (27°C). To ensure proper adhesion, surfaces must be clean, dry, free from old finish, wax, grease and dust. For best results, follow NWFA Approved Sanding procedures. Remove all sanding dust with a vacuum and wipe clean with a lint-free cloth lightly dampened with water. Allow to dry thoroughly.

**APPLICATION TIPS**

Extinguish all flames and pilot lights, and turn off all stoves, heaters, electric motors and other sources of ignition during use until project is complete. Use only when air (ambient) temperature is between 60-80°F (16-27°C) and the relative humidity is below 85%. Lower temperatures and/or high humidity may cause slower dry times. Slower dry may also result from applications on redwood, cedar or woods with high oil content, or when the finish/hardener mixture is applied over some stains. Do not thin. Stir thoroughly before and during use. To prevent bubbles in the finish/hardener mixture, let sit for at least 5 minutes (see application section). Do not over-brush, and do not apply with a roller.

**PRODUCT APPLICATION (cont.)**

**APPLICATION**

Pour contents (8 oz.) of Nano Shield Hardener into one gallon of Nano Shield Rapid Cure or Nano Shield Advanced Floor Finish and stir thoroughly for 5 minutes, being careful to avoid foaming. Allow the activated finish to sit for 5 minutes before applying. After 5 minutes, follow the Nano Shield Rapid Cure or Nano Shield Advanced Floor Finish labels for application instructions. If the project needs less than 1 gallon, mix using a 1:12 ratio by weight. If a partial container is used, immediately close the bottle. **DO NOT** alter the prescribed ratio of Hardener to finish. A sample test area on the floor is always recommended.

**NOTE:** Nano Shield Hardener can **ONLY** be used with Nano Shield Rapid Cure or Nano Shield Advanced Floor Finish. The activated mixture must be used within 3 hours after activation. Pot life can be affected by ambient temperature. The finish and hardener can be activated **ONLY** one time. Do not mix more than 2 gallons of activated material as the product becomes exothermic.

**WARNING!** Combustible liquid and vapor. Eye, skin and respiratory irritant. Possible sensitizer. Reacts with water, alcohols, bases and amines. May cause long term effects in the environment. Wear gloves when handling. Wear eye protection and protective clothing.

**STORAGE**

Store at room temperature. **KEEP FROM FREEZING.** One year shelf life on unopened product.

**KEEP OUT OF REACH OF CHILDREN.**

**TECHNICAL DATA****NANO SHIELD™ HARDENER****PHYSICAL PROPERTIES**

| Physical Properties        |            | NANO SHIELD HARDENER                           |
|----------------------------|------------|--|
| Resin Type                 |            | Hexamethylene Diisocyanate Homopolymer         |
| Solvents                   |            | 3-Methoxybutyl Acetate                         |
| Weight                     | Per Gallon | 9.0 lbs  |
|                            | Per Liter  | 1.08 kg  |
| Solids                     | By Weight  | 70%  |
|                            | By Volume  | 67%  |
| Volatile Organic Compounds |            | <340 g/l (2.83 lbs./gal.)                      |
| Mixing Ratio               |            | 8 oz. Hardener to one gallon                   |
| Induction Period           |            | 5 minutes                                      |
| Pot Life                   |            | 3 hours  |
| Full Cure Time             |            | 4 days   |
| Shelf Life                 |            | 1 year (unopened)                              |
| Flash Point                |            | 168°F (75°C)                                   |
| Storage                    |            | Store at room temperature. KEEP FROM FREEZING. |
| Safety Information         |            | For additional information, see SDS            |

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