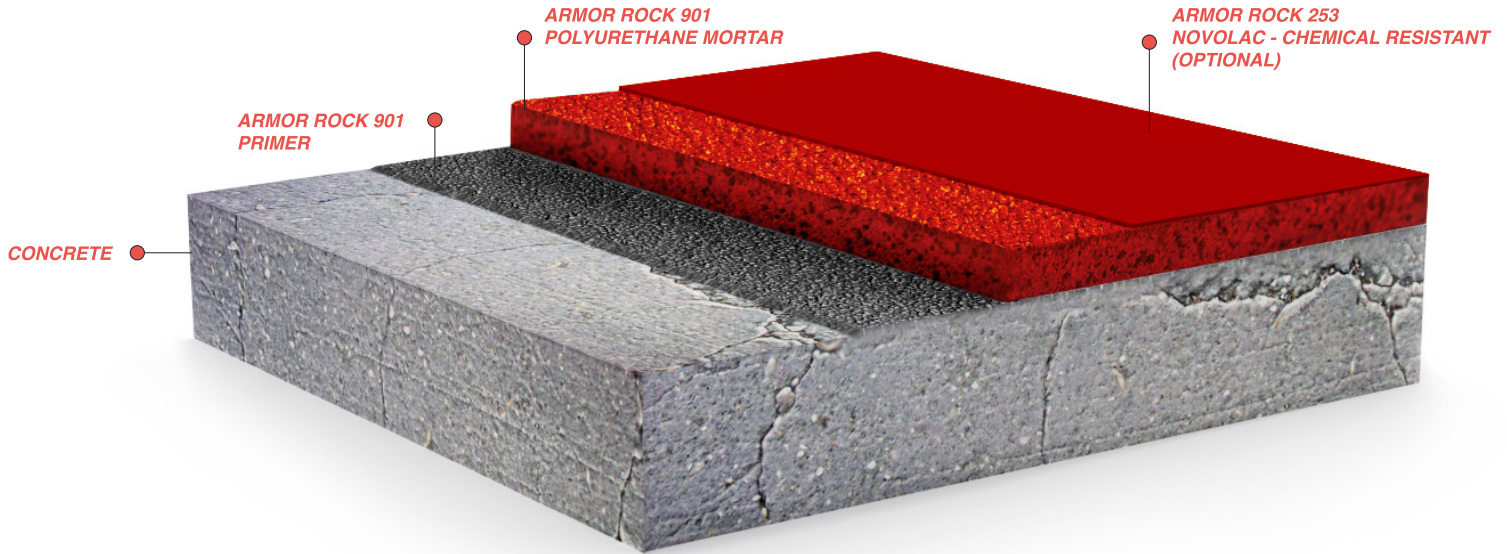


Polyurethane Mortar System

Polyurethane Mortar System is a self leveling, low odor slurry that can be applied at 3/16" thickness and broadcast to yield a 1/4" to 3/8" system. It is used for environments requiring a durable floor that can withstand heavy and abusive service. Urethane slurry systems are an ideal choice for resurfacing areas where a durable shock resistant



The system described is NPI's standard system. Consult your sales representative for details on other available topcoats and primers.

BENEFITS

- ◆ Thermal shock resistant
- ◆ Good freeze/thaw stability
- ◆ Slurry cures down to 45 degrees F
- ◆ Impact resistant
- ◆ Chemical resistant

RECOMMENDED FOR

- ◆ Food and Chemical Processing
- ◆ Bakeries
- ◆ Wastewater Treatment
- ◆ Breweries/Bottling Plants
- ◆ Walk In Coolers

We also have available several crack fillers, joint sealant and other support products. Please inquiry with your sales representative for more information on these products.

Refer to individual data sheets for preparation, mixing and application instructions as well as product limitations, limitations to liability, warranty information, and common chemical resistance information.

SYSTEM COMPONENTS (approx. 1/16)

Coat	Product	Mix Rate	Coverage
Primer	Armor Rock 901 Liquids	2:1	125sf/gal
Mortar	Armor Rock 901 Polyurethane Mortar	4:1	36 sf/gal
Top Coat	253 Novolac Epoxy Seal	2:1	90-100 sf/gal

Multiple Options Available

PHYSICAL PROPERTIES

Property	Test Method	Result
Adhesion		425 psi concrete failure
Flexural Strength	ASTM D790	3,500 psi
Compressive Strength	ASTM D695	7,800 psi
Tensile Strength	ASTM D638	1,100 psi
Impact Resistance		60 inch lbs. direct
Abrasion Resistance	CS-17 1000/500	20 mg
Gloss	Glossmeter	>40
Application Temperature		60° to 90° F

*See individual component product data sheets for specific product properties (**neat resin)*

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ARMOR ROCK

CONCRETE FLOOR COATINGS

Polyurethane Mortar System Mixing and Application Instructions

PRODUCT STORAGE: Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Keep from freezing. Low temperatures may cause product crystallization.

SURFACE PREPARATION: Surface preparation will vary according to the type of complete system to be applied.. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete has an appropriate vapor barrier. This can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate does not show signs of eventual hydrostatic pressure problems that may later cause disbanding.

SLURRY MIXING: This product is packaged with a gallon container of part A (8.3#) and a gallon container of part B (9.75#) with an aggregate component consisting of one bag (30#). Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down. Add the part B component to an oversized mixing container first, followed by the part A component. After the two liquid parts are combined thoroughly and streak free, add in the provided aggregate and mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and uniform in color. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the prepared substrate. Remix occasionally to prevent settling of aggregate. Improper mixing may result in product failure.

SLURRY APPLICATION: Have the floor as dry as possible without any puddles of water present. If there is excess water on the substrate, take up excess with a suitable vacuum until a near dry condition exists. Then, after the material is thoroughly mixed, pour the material onto the substrate. Either use a trowel to push out and level the material evenly or spread with a gauge rake followed by an air release roller tool. Surfaces not broadcasted could have an uneven texture, color streaks or color differences and an orange peel look. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. Do not apply to cracked or unsound concrete. Do not feather edge.

MORTAR MIXING: Mix the liquids to be used in the power trowel mortar system at the recommended mix ratio. Thoroughly mix the combined components A and B with a jiffy mixer or other suitable equipment. Continue to mix for a couple of minutes to insure the material is mixed well. After the liquids are thoroughly mixed, pour the liquids into a Koel mixer, mud mixer or other suitable mixer (depending on batch size). After the liquids are in the mixer, immediately add the special aggregate blend into the mixer. The amount of aggregate should not exceed 37 pounds of the aggregate to 1/2 gallon of mixed liquids. For best results, we recommend a 7:1 aggregate to liquid ratio by weight. Mix the aggregate into the liquids thoroughly to insure it is wetted out and uniform in saturation. Improper mixing may result in product failure. (mix ratio: ½ gallons mixed liquid to 37# bag of special aggregate)

MORTAR APPLICATION: The material can be spread by using a screed box, rake or other suitable equipment. Spread the mixed mortar directly over the wet power trowel primer while wet. Keep in mind that a 3/16 inch depth of power troweled mortar will only yield a nominal compacted depth of 1/8 inch and 3/8 inch depth of power troweled mortar will yield a nominal finished depth of 1/4 inch. We do not recommend a finished depth below 1/8 inch. Power trowel the mortar mix with a slow speed power trowel. When hand troweling the edges, use sufficient downward force to compact the mortar and blend in with the power troweled sections. **PRECAUTIONARY STATEMENT:** (a) Do not over trowel the mortar as this can cause blistering. (b) Air currents directly across or above the mortar can cause blistering. Always use materials (liquids) from the same batch or (especially when using colored systems) properly box the material prior to using. **CLEANUP:** Use xylol

BROADCAST APPLICATION: Immediately after the product

is applied, broadcast with sand to rejection on the wet surface. Remove excess aggregate after the material has cured.

SEAL COAT MIXING: This product has a mix ratio of 10.15# part A to 4.2# part B for standard colors. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the substrate. Improper mixing may result in product failure.

SEAL COAT APPLICATION: After removing excess loose aggregate, the mixed seal coat material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

SEAL COAT CLEANUP: Use xylol.

FLOOR CLEANING: Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS: Restrict the use of the floor to light traffic and nonharsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.