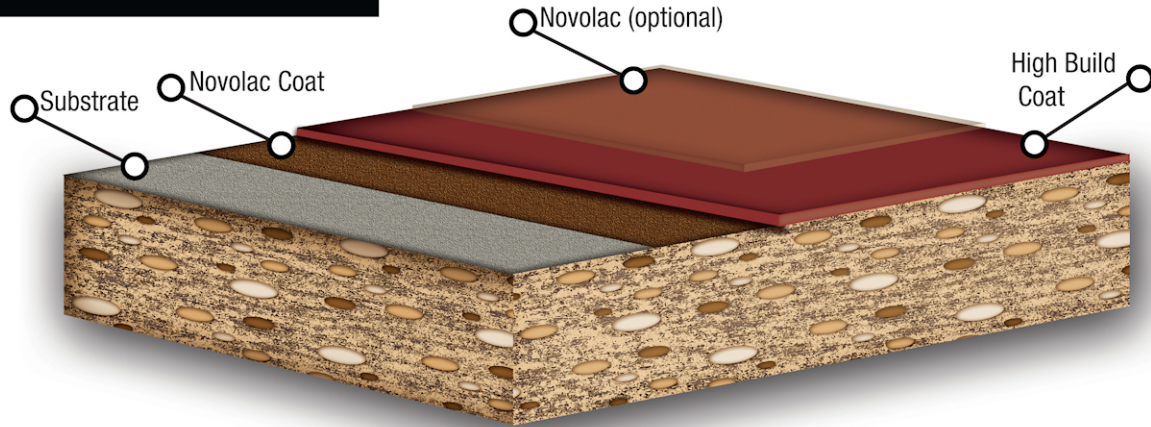


## Chemical Resistant System



Chemical Resistant System is a high build floor system that enables mid-range to high performance chemical resistance. It is used for environments requiring a chemical resistant floor.

The system described is our standard system, we have several other product options that also work for this system including, but not limited to low odor or low VOC products. Consult your sales representative for details.

### BENEFITS

- Excellent chemical resistance
- Variety of colors available
- Excellent solvent resistance
- Novolac joint sealants & crack fillers available

### RECOMMENDED FOR

- Chemical Processing Plants
- Pulp and Paper Mills
- Food Processing
- Gas Processing
- Power Generation
- Sewage and Water Treatment
- Battery Charging Stations
- Mining Industry

| SYSTEM COMPONENTS |               |          |                      |
|-------------------|---------------|----------|----------------------|
| Coat              | Product       | Mix Rate | Coverage             |
| Primer            | 257 Novolac   | 2:1      | 267 to 320 sf/gallon |
|                   | Epoxy Primer  |          |                      |
| Body              | 253 Novolac   | 2:1      | 90 to 100 sf/gallon  |
|                   | Epoxy Coating |          |                      |

\*Optional 2<sup>nd</sup> coat of 253 for topcoat

### Multiple Options Available

\*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.

| PHYSICAL PROPERTIES     |                |                            |
|-------------------------|----------------|----------------------------|
| Property                | Test Method    | Result                     |
| Adhesion                |                | 375 psi (concrete failure) |
| Flexural Strength       | ASTM D790      | 9,610 psi                  |
| Compressive Strength    | ASTM D695      | 9,900 psi                  |
| Tensile Strength        | ASTM D638      | 6,680 psi                  |
| Elongation              |                | 4.7%                       |
| Impact Resistance       |                | 50 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.

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

**ArmorX**  
High Performance Flooring

Phone: 410-726-3298

## Chemical Resistant 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.

**SURFACE PREPARATION:** Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. 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 is dry; 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 is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

**PRIMER MIXING:** This product has a mix ratio of 9.95# part A to 4.15# part B by weight. Merely mix the two components together. After the two parts are combined, mix well with slow speed mixing equipment such as jiffy mixer until the material is thoroughly mixed and streak free

**PRIMER APPLICATION:** The mixed material can be applied by brush or roller. Maintain temperatures and humidity within the recommended ranges during the application and curing process. Improper mixing or applying the product too thick can result in product failure.

**TOPCOATING THE PRIMER:** When you recoat or topcoat this product, you must first be sure that all of the solvents have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film, or deglossing.) If a blush is present, it can be removed with any standard type detergent cleaner prior to topcoating or recoating. The primary choice of topcoat will be other novolac epoxy coatings. Multiple coats of this product are suitable prior to topcoating.

**PRIMER CLEANUP:** Use xylol

**BODY COAT (BUILD COAT) PRODUCT 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 primed substrate. Improper mixing may result in product failure.

**BODY COAT (BUILD COAT) APPLICATION:** The mixed 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. Multiple coats of this product are suitable when required.

**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 non-harsh 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.**