

ULTRA-HD NEAT SYSTEM
SPECIFICATION SHEET

BENEFITS:

- Suitable in many chemical exposure environments
- Color stable with urethane topcoat
- Excellent wear characteristics
- Engineered chemistry to provide UV resistance
- Typical application of estimated 27 to 42 mils

RECOMMENDED FOR:

- Industrial or manufacturing areas
- Pharmaceutical manufacturing
- Restrooms and Locker rooms
- Lobbies / Public Areas
- Laboratories
- Commercial Areas
- Auto repair shops
- Aeronautical hangars
- Animal care areas
- Anywhere a high impact - solid color concrete resurfacer is desired

SYSTEM COMPONENTS (APPROX 3/16" TO 5")

COAT	PRODUCT	MIX RATE	COVERAGE
PRIMER	HDPRO	2:1	133-267 FT ² PER GALLON
MIDCOAT	PR0100	2:1	50-125 FT ² PER GALLON
TOPCOAT	HPU *	2:1	320 FT ² PER GALLON
FINISHING TOPCOAT	HPU *	2:1	500 FT ² PER GALLON

Many variants available with our Ultra Neat System so please request additional information from your Spartan Epoxies expert.

* Our anti-slip additive is available if additional slip resistance is required/needed. 1 quart to 3 gallons.

* HPU is available in clear and pigmented. HPU is also available in High Gloss or Low Gloss finish.

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

Spartan Epoxies also has available, several crack fillers, joint sealant and other support products. Please inquire with your sales representative for more information.

OPTIONAL TOPCOAT

HPU - Optional finishing top coat, add anti-slip to final coat. Many topcoats options available.

TOPCOAT

HPU - 2 Part High Performance Urethane available in clear and pigmented variants.

MIDCOAT

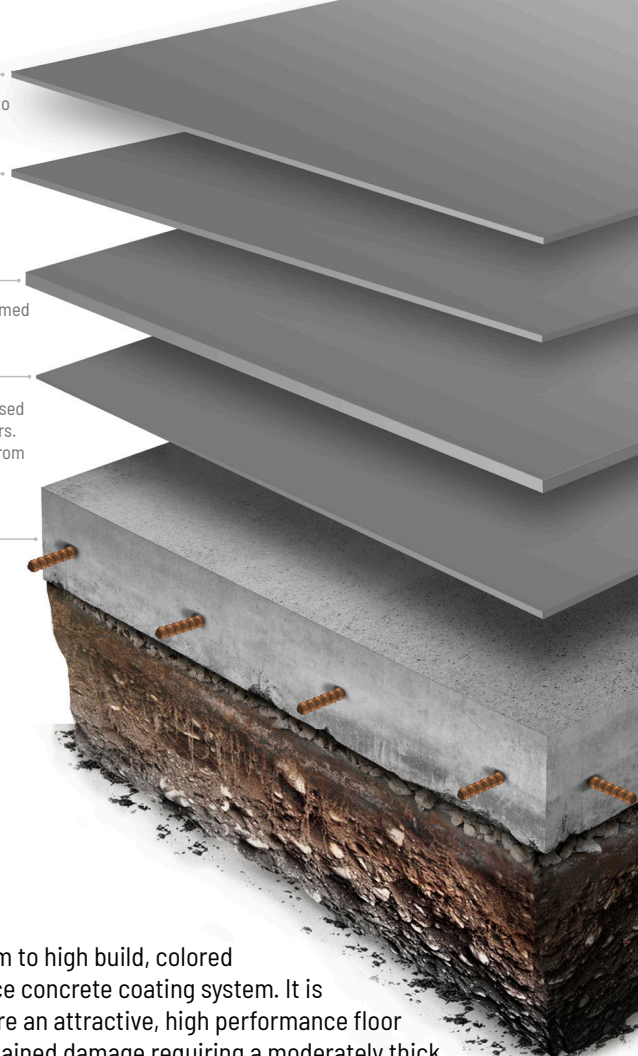
PR0100 is a 100% solids epoxy system ideal for med to high build epoxy systems.

PRIMER

HDPRO is our 2 part 93% solids epoxy system used as the primer/base coat. Available in many colors. See color chart on our website or request one from a Spartan Expert.

CONCRETE SUBSTRATE

Always prepare your concrete. New, old or a certain finish, it doesn't matter. Have a wood substrate? You can apply over it. Ask us how.



SYSTEM DESCRIPTION

Ultra-HD Neat System is a medium to high build, colored epoxy/urethane, high performance concrete coating system. It is used for environments that require an attractive, high performance floor or when a concrete floor has sustained damage requiring a moderately thick resurfacer that's easy to apply due to it's ability to self level.

The system described is Spartan Epoxies standard system. Spartan Epoxies has several product variations available to obtain a variety of outstanding benefits and features, but not limited to, low odor or low VOC products. Consult with our expert coating team for details and recommendations that are specifically beneficial to your application.

PROPERTY	TEST METHOD	RESULTS
ADHESION	N/A	430 PSI (CONCRETE FAILURE)
FLEXURAL STRENGTH	ASTM D790	5400 PSI
COMPRESSIVE STRENGTH	ASTM D695	9200 PSI
TENSILE STRENGTH	ASTM D638	4900 PSI
ELONGATION		3.12%
IMPACT RESISTANCE		55 INCH PER POUND DIRECT
ABRASION RESISTANCE	CS-17 1000 /500	21 MG
GLOSS	GLOSSMETER	>70
APPLICATION TEMP		60° TO 90° F

Typical values and not specifications.

See individual component product data sheets for specific product properties.

ULTRA-HD NEAT SYSTEM

APPLICATION INSTRUCTIONS

* See individual data sheets for complete details.

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 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 & 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.

PRIMER (HDPRO) MIXING: This product has a mix ratio of 12# part A to 3.85# part B for standard colors. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We 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.

PRIMER (HDPRO) APPLICATION: This product is only intended as a high solids primer suitable for most substrates. However, if the surface is very porous, then a lower solids primer might be more suitable to reduce the possibility of air release problems occurring. Apply the mixed material with an 8 - 12 mil serrated squeegee, and then back roll with a 3/16" nap roller cover. Use a high quality - double weaved, phenolic core roller cover. Cut edges with a 9" Roller or a 3 or 4" chip brush. Maintain temperatures & relative humidity within the recommended ranges during the application & 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. Thinner applications will not level as well as higher build applications.

COATING HDPRO: When coating over HDPRO, be sure that the coating has tacked off before starting to apply PRO100 Midcoat. Check the coating to verify no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to applying PRO100 midcoat. A standard type detergent cleaner can be used to remove any blush.

MIDCOAT (PRO100) PRODUCT MIXING: PRO100 has a mix ratio of 12# part A to 4.15# part B or 2 parts A to 1 part B by volume for standard colors. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We 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 (90 to 120 seconds). After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. PRO100 in the transfer pail is now ready to be applied on the primed substrate (HDPRO). Improper mixing may result in product failure. DO NOT LEAVE MIXED PRO100 IN THE PAIL. WHEN MIXING IS FINISHED, POUR NICE 5 TO 8" RIBBON ACROSS THE AREA.

MIDCOAT (PRO100) APPLICATION: Use the required depth notched squeegee to achieve thickness desired. Once spread with a notched squeegee, back roll using a 3/16" nap roller. Edge work should be done using a smaller roller or a 3" chip brush.

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.

TOPCOAT (HPU) PRODUCT MIXING: HPU has a 2:1 mix ratio by volume- merely mix two gallons of part A with 1 gallon part B. 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 (typically 2 to 3 mins). Avoid whipping air into the coating. Improper mixing may result in product failure.

TOPCOAT (HPU) APPLICATION: DO NOT LEAVE MIXED PRO100 IN IT'S PAIL. IMMEDIATELY pour PRO100 in a 6 yo 8 inch ribbon, then use the proper depth notched squeegee to spread evenly. Back roll using a 3/16" nap roller that is high quality and shed resistant. Maintain temperatures within the recommended ranges during the application and curing process. It is best to maintain a wet edge to avoid roller marks. Direct sunlight or high temperatures may cause visible roller marking during application. Too thick of an application may result in product failure. Exposure to certain types of lighting such as sodium vapor lights may cause the product to discolor. Topcoat within 24 hours to insure a proper bond. If topcoating after 24 hours, it is recommended to degloss the Body coat prior to applying the final topcoat.

ULTRA-HD NEAT SYSTEM

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.