TECHNICAL DATA SHEET

AG257X CHEMICAL RESISTANT NOVOLAC PRIMER

ARMOR GARAGE

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PRODUCT DESCRIPTION

AG257X is a two component novolac epoxy primer in colors. AG257X offers high solids, good substrate penetration and low odor. This primer reduces air release generation from the substrate when applying higher solids novolac topcoats. This will result in fewer surface imperfections in high build and self-leveling type coating.

RECOMMENDED FOR: Recommended for priming concrete and cement substrates prior to applying a Novolac topcoat. This product can withstand exposure to many chemicals. Please refer to our Chemical & Acid Guide for full list.

SPECS

SOLIDS BY WEIGHT	85%
SOLIDS BY VOLUME	80%
VOLATILE ORGANIC CONTENT	Less than 183g/l mixed
RECOMMENDED FILM THICKNESS	5-6 mils per coat yields 4-5 mils dry
PACKAGING INFORMATION	1.5 gallon kit, 3 gallon kit
FLEXIBILITY	No cracks on 1/8' mandrel
MIX RATIO	2 Parts A to 1 Part B
SHELF LIFE	1 year in unopened containers
IMPACT RESISTANCE	Gardner Impact, direct = 50 in. lb (passed)
ADHESION	375 psi @ elcometer (concrete failure, no delamination
VISCOSITY	Mixed= 250-500 cps (typical)
DOT CLASSIFICATIONS	Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993 PGIII" Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993 PGIII"
ABRASION RESISTANCE	Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 26.1 mg loss
FINISH CHARACTERISTICS	Satin gloss (>20 at 60 degrees @ glossmeter)
GARDNER VARIABLE IMPACTOR	50 inch pounds direct – passed

COVERAGE

PER GALLON	Appx 275-300 sq.

COLORS

Light gray, Medium Gray, and Tile Red

CURE SCHEDULE

POT LIFE (1.5 Gal)	1-3 hours
TACK FREE (Dry to touch)	4-7 hours
RECOAT OR TOPCOAT	7-10 hours
LIGHT FOOT TRAFFIC	12-24 hours
FULL CURE (heavy traffic)	2-7 days
APPLICATION TEMPERATURE	60-90 degrees F with RH below 90%

PRIMERS

None required

TOPCOAT

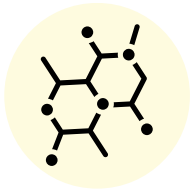
Nnovolac products are suitable such as our AG253X

CHEMICAL RESISTANCE

Acetic Acid 5%	D
Xylene	D
Toluene	D
1,1,1 trichloroethane	C
MEK	C
Methyl alcohol	C
Gasoline	D
10% Sodium hydroxide	E
50% Sodium hydroxide	E
10% Sulfuric Acid	E
10% Hydrochloric Acid	E
20% Nitric Acid	C
Ethylene Glycol	E

Rating Key: Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

FEATURES



Chemical Resistance

Low Odor

Super Durable

Roll On Application

LIMITATIONS

Colors may be affected by high humidity, low temperatures or chemical exposure. For best results use a 3/8" nap roller. Slab on grade requires moisture barrier. Substrate temperature must be 5°F above dew point. All new concrete must be cured for at least 30 days. Physical properties are typical values and not specifications. This product should be topcoated with a suitable novolac epoxy topcoat. Colors may vary from batch to batch. See reverse side for application instructions. See reverse side for limitations of our liability and warranty.

INSTRUCTIONS

AG257X CHEMICAL RESISTANT NOVOLAC COATING

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PRODUCT STORAGE

Store product in an area as to bring the material to normal room temperature before using. Continuous storage should be between 6 and 90 degrees F. Low temperatures or great temperature fluctuations may cause product crystallization

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

PRODUCT MIXING

This product has a mix ratio of 9.95# part A to 4.15# part B by weight (2 to 1 mix ratio). 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.

PRODUCT 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. If using non skid additive you will broadcast directly onto the floor while it's still wet. Medium broadcast application rate of aluminum oxide is 1lb per 100 sq.ft.

RECOATING OR TOPCOATING

This product is a primer, we recommend our AG253X as a topcoat. 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.

CLEANUP / FLOOR FLEANING

Use xylol to cleanup during application. For floor cleaning and maintenance please be cautious. 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. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

TECHNICAL DATA SHEET

AG253X
NOVOLAC TOPCOAT

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PRODUCT DESCRIPTION

AG253X is a two component colored high solids novolac epoxy coating designed for application where splash and spills of acids, chemicals, and solvents occur

RECOMMENDED FOR: Recommended for a high build topcoat for traffic areas, chemical troughs and curbs as well as tanks and chemical spill areas such as breweries, wineries, and food processing facilities for cement masonry or brick.

SPECS

SOLIDS BY WEIGHT/VOLUME	96% (+, - 1%) / 94% (+, - 1%)
HEAT DEFLECTION TEMP.	115.5 degrees F, ASTM D648
VOLATILE ORGANIC CONTENT	Less than 44 g/L
RECOMMENDED FILM THICKNESS	16-18 mils
PACKAGING INFORMATION	1.5 gallon kit, 3 gallon kit, and 15 gallon kit
FLEXURAL STRENGTH	9,610 psi @ ASTM D790- 1/2"X1/2" bars span 4"
MIX RATIO	2 Parts A to 1 Part B
SHELF LIFE	1 year in unopened containers
COMPRESSIVE STRENGTH	9,900 psi @ ASTM D695
TENSILE STRENGTH	6,680 psi @ ASTM D638
ADHESION	425 psi @ elcometer (concrete failure, no delamination)
ULTIMATE ELONGATION	4.7%
VISCOSITY	Mixed = 2200-2700 cps (typical)
DOT CLASSIFICATIONS	Part A "not regulated" Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII"
ABRASION RESISTANCE	Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 20 mg loss
HARDNESS	Shore D = 88
GARDNER VARIABLE IMPACTOR	50 inch pounds direct – passed

COVERAGE

PER GALLON	90-100 - 115 square feet per gallon @ 16-18 mils. Coverage will vary based on surface profile and application thickness

COLORS

Light gray, Medium Gray, and Tile Red

CURE SCHEDULE

POT LIFE (1.5 Gal)	25-35 minutes
TACK FREE (Dry to touch)	5-7 hours
RECOAT OR TOPCOAT	5-10 hours
LIGHT FOOT TRAFFIC	10-18 hours
FULL CURE (heavy traffic)	2-7 days
APPLICATION TEMPERATURE	60-95 degrees F with RH below 90%

PRIMERS

Recommend to be used with AG257X or AG903SLX.

TOPCOAT

None recommended

CHEMICAL RESISTANCE

Xylene	D
1,1,1 trichloroethane	C
MEK	C
Methanol	C
Ethyl alcohol	C
Skydrol	C
10% Sodium Hydroxide	E
50% sodium hydroxide	E
10% sulfuric acid	E
70% Sulfuric Acid	C
10% HC1 (aq)	D
5% Acetic Acid	D

Rating Key: Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

FEATURES

Chemical Resistance

Heat Resistant

Super Durable

Roll On Application

LIMITATIONS

Color stability or gloss may be affected by environmental conditions such as high humidity, low temperature or chemical exposure. Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job. Apply a suitable primer before using this product This product is not UV color stable and exposure to lighting such as sodium vapor lights may cause discolorations. Mixtures of chemicals and applications with exposures to chemicals at elevated temperatures should be thoroughly evaluated before applying coating. A test patch is recommended. Product can develop surface irregularities in leveling in combination to some chemical contamination or substrate compositions. Substrate temperature must be 5°F above dew point. For best results, apply with a 1/4" nap roller. All new concrete must be cured for at least 30 days prior to application. See reverse side for application instructions.

INSTRUCTIONS

AG253X
NOVOLAC TOPCOAT

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PRODUCT STORAGE

Store product in an area as to bring the material to normal room temperature before using. Continuous storage should be between 6 and 90 degrees F. Low temperatures or great temperature fluctuations may cause product crystallization

SURFACE PREPARATION

The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil 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.

PRODUCT MIXING

This product has a mix ratio of 10.15# part A to 4.2# part B for standard colors (2:1 Mix). 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.

PRIMING

A suitable primer such AG257 should be used before applying this product. See the front side of this technical data for primer information. If a primer is not used, more porous substrates may cause outgassing and possible surface defects

PRODUCT APPLICATION

The mixed material 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.

RECOATING OR TOPCOATING

: If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. However, all previous coats should be deglossed to insure a trouble free bond prior to application of recoats or topcoats. 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 must be removed prior to topcoating or recoating. Multiple coats of this product are acceptable and can be used to achieve greater chemical resistance and build.

CLEANUP / FLOOR FLEANING

Use xylol to cleanup during application. For floor cleaning and maintenance please be cautious. 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. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.