

S-900 High Build Epoxy™

TECHNICAL DATA SHEET

DESCRIPTION:

Super-Krete S-900 High Build Epoxy Primer is a two component 93% (+/- 1%) solids epoxy colored coating designed for applications where a high solids primer is needed before applying high solids or 100% solids topcoats for build coats over concrete. Recommended for a high build basecoat on concrete or masonry. Product is suitable in many chemical exposure environments.

CHEMICAL RESISTANCE:

REAGENT	RATING
butanol	C
xylene	C
1,1,1 trichloroethane	B
MEK	A
methanol	A
ethyl alcohol	C
skydrol	B
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric acid	C
70% sulfuric acid	A
10% HCl (aq)	C
5% acetic acid	B

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.



COVERAGE:

133 - 267 square feet per gallon @ 6-12 mils

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' x 4' 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.

MIXING:

This product has a mix ratio of 12 lbs part A to 3.85 lbs. 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.

APPLICATION:

This product does not require a primer unless substrate is very porous, then use recommended primer to eliminate air release defects. 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. Thinner applications will not level as well as higher build applications.

RECOATING: Although a topcoat is recommended, it is optional. Many topcoats are suitable for placement over this coating including both urethanes and epoxies. When topcoating this product, you must first be sure that the coating has tacked off before topcoating can commence. Before topcoating, 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 topcoating. A standard type detergent cleaner can be used to remove any blush. Many epoxy coatings and urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product as an intermediate build coat.

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CURE SCHEDULE (70 degrees):

pot life - 1.5 gallon volume	35-55 minutes
tack free (dry to touch)	6-9 hours
recoat or topcoat	10-14 hours
light foot traffic	12-16 hours
full cure (heavy traffic)	2-7 days

CLEANING: Clean up spray equipment by using xylol soon after the spraying has been completed.

STORAGE: Store product in an area so as to bring the material to normal room temperature before use. Continuous storage should be between 60 to 90 degrees F. Low temperatures or great temperature fluctuations may cause crystallization.

RESTRICTIONS:

DOT Classifications:

Part A "not regulated"

Part B "Flammable Liquid N.O.S., 3, UN1993, PGIII"

TECHNICAL INFORMATION:

Colors:	Off white, light gray, med gray tile red, beige	Adhesion:	430 psi @ elcometer (concrete failure, no delamination)
Viscosity:	Mixed=500-800 cps (typical, most colors)	Flexural Strength:	8,200 psi @ ASTM D790
Solids By Weight:	93% (+/-1%)	Abrasion Resistance:	Taber adrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 45 mg loss
Solids By Volume:	85% (+/-2%)	Volatile Organic Content:	Part AVOC <580 grams/liter
Tensile Strength:	6,800 psi @ ASTM D638	Yield Compressive Strength:	8,300 psi @ ASTM D790
Recommended Film Thickness:	6-12 mils		

SHELF LIFE:

1 year in unopened containers. Do not allow product to freeze.

PRECAUTIONS:

Clarity of gloss may be affected by high humidity, low temps., or chemical exposure. Lighting like sodium vapor lights may affect color. For best results use a good quality roller. Slab on grade requires moisture barrier. Substrate temp. must be 5F above dew point. All new concrete must be cured for at least 30 days. Do not apply this product to areas where there is standing water or damp concrete. Too thick of an application may result in solvent entrapment and subsequent product failure. Solvent exposure can damage the coating. Physical properties listed on this technical data sheet are typical values and not specifications. Always apply a test area to determine suitability of this product before using.

LIMITATIONS:

Super-Krete products are to be applied only when surface temperatures are above 55°F and rising and not to exceed 100°F. Super-Krete products are not to be applied when precipitation is expected within 24 hours following completion of application. Do not allow materials to freeze. Each Super-Krete product acts as an inherent part of a proven system. Super-Krete products are professional, contractor grade products. Training in the use of these products is available. Consult Super-Krete for information and assistance locating approved contractors in your area or for training class dates.

NOTE: Super-Krete International, Inc. believes this information to be true to the best of our knowledge and products are of the highest quality and uniform within manufacturing tolerances. Since no control is exercised over product use, no warranty, expressed or implied is made as to the effect of such use and no liability is assumed directly or indirectly, from their use. Buyers and users are encouraged to conduct their own test prior to application.

WARRANTY:

Super-Krete products are warranted only when applied by Super-Krete Certified Applicators in accordance with Super-Krete specifications. No warranty applies to products applied over concrete substrates with moisture vapor transmissions exceeding (3 lbs.)/(1,000 sf) of surface area. Super-Krete provides a 5 year warranty when products are applied by Certified Applicators. To apply for warranty, refer to the Super-Krete Limited Warranty and form filing at www.super-krete.com.