TECHNICAL DATA- TL707HP
HIGH BUILD EPOXY PRIMER

PRODUCT DESCRIPTION:

TL707HP is a two component 93% (+/- 1%) solids epoxy colored coating designed for roll on application over properly prepared concrete substrates. Can also be used as a primer in applications where a high solids primer is needed before applying high solids or 100% solids topcoats for build coats over concrete to create a total system thickness nearly double most garage specifications.

RECOMMENDED FOR:

Recommended for a high build basecoat on concrete or masonry. Product is suitable in many chemical exposure environments.

SOLIDS BY WEIGHT:
93% (+/- 1%)

SOLIDS BY VOLUME:
85% (+/-2%)

VOLATILE ORGANIC CONTENT:
Part A= .14#/gallon, part B= 2.1#/gallon
Mixed VOC less than 95 g/l

STANDARD COLORS:
Off white, light gray, medium gray, tile red, beige

OTHER COLORS ALSO AVAILABLE:
Dark gray, charcoal gray, brown, tan, light blue, and green
Special colors are available upon request

RECOMMENDED FILM THICKNESS:
6-12 mils

COVERAGE PER GALLON:
133-267 square feet per gallon @ 6-12 mils

PACKAGING INFORMATION
3 gallon kit (volume approximate) and 15 gallon kits (volume approximate)

MIX RATIO:
12 pounds (1.0 gallon) part A to 3.85 pounds (0.50 gallons) part B (volumes approx.) (standard colors)

SHELF LIFE:
1 year in unopened containers

FINISH CHARACTERISTICS:
Gloss (typical 60 at 60 degrees)

ABRASION RESISTANCE:
Taber adrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 45 mg loss

ADHESION:
430 psi @ elcometer (concrete failure, no delamination)

VISCOSITY:
Mixed= 500-800 cps (typical, most colors)

DOT CLASSIFICATIONS:
Part A "not regulated"
Part B "Flammable Liquid N.O.S., 3, UN1993,PGIII"

FLEXURAL STRENGTH:
8,200 psi @ ASTM D790

YIELD COMPRESSIVE STRENGTH:
8,300 psi @ ASTM D695

TENSILE STRENGTH:
6,800 psi @ ASTM D638

GARDNER VARIABLE IMPACTOR:
50 inch pounds direct – passed

ULTIMATE ELONGATION:
2.5%

HARDNESS:
Shore D= 80

CURE SCHEDULE: (70°)
pot life – 1 1/2 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

APPLICATION TEMPERATURE:
60-90 degrees F with relative humidity below 85% for best results

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% HC1 (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.

Please note it is important to rely on the chemical resistance of the topcoat as opposed to the basecoat when a full epoxy system is installed.

PRIMER:
None required, however we ALWAYS suggest a primer such as TL015.

TOPCOAT:
Recommend epoxy coatings or high builds. Topcoat with aliphatic urethanes for increased UV stability.

LIMITATIONS:
*Color stability or gloss may be affected by environmental conditions such as high humidity or chemical exposure.
*Colors may vary from batch to batch.
*This product is not UV color stable but has fairly good color stability, topcoat recommended but optional.
*Substrate temperature must be 5°F above dew point.
*For best results, apply a 1/4" nap roller.
*All new concrete must be cured for at least 30 days prior to application.
*Although a thinner or lower solids primer is generally unnecessary, some more porous substrates may benefit by the use of a lower solid primer, with this product as an intermediate coat.
*Physical properties data based on neat resin.
*See reverse side for application instructions.
*Physical properties are typical values and not specifications.
*See reverse side for limitations of our liability and warranty.

INSTRUCTIONS (TL707HP)

1) **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. Low temperatures or great temperature fluctuations may cause crystallization.

2) **SURFACE PREPARATION:** The use of a grinder is suggested. Acid Etching is an acceptable alternative where no sealer has been applied. 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.

3) **PRODUCT 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 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.

4) **PRIMING:** While this product can be used without a primer, a primer is highly suggested UNLESS a second coat of epoxy is to be installed and this coat is functioning as the primer in a 100% solids over high solids system.

5) **PRODUCT 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. Thinner applications will not level as well as higher build applications.

6) **RECOAT OR TOPCOATING:** 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. This information is provided as a precaution but is rare with a high quality epoxy.

7) **CLEANUP:** Use xylol

8) **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.

9) **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.

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. Any use or application other than recommended herein is the sole responsibility of the user. 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. N0 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.***