



TECHNICAL DATA

SA141 liquids only

SURFACE ARMOR PATCH KIT

PRODUCT DESCRIPTION:

SA141 consists of a two-component polymer packaged in various package sizes for patching and repairing concrete with suitable equipment or plural component bulk guns and static mixing nozzle

RECOMMENDED FOR:

Industrial repairing of spalled concrete, holes, cracks and thresholds or uneven concrete slabs.

NOT RECOMMENDED FOR:

Expansion Joints.

SOLIDS BY WEIGHT:

Nearly 100% cured

VOLATILE ORGANIC CONTENT:

5.5 grams per liter cured

STANDARD COLORS:

Gray colored when mixed and cured. The gray color will not develop until the curing process takes place.

RECOMMENDED THICKNESS:

The NP343 polymer can be applied at variable thicknesses with the use of any dry sand aggregate.

COVERAGE PER UNIT:

Coverage is dependent on hole size and amount of aggregate sand used as well as the unit size ordered.

PACKAGING

Packaged in various unit sizes such as two gallon kits and 10 gallon kits.

MIX RATIO:

The mix ratio is 1:1 by volume

SHELF LIFE:

1 year in unopened containers

SHORE D HARDNESS:

71

TENSILE STRENGTH:

4,500 psi

ELONGATION:

5-6%

IMPACT RESISTANCE:

excellent

ABRASION RESISTANCE:

excellent

COMPRESSIVE STRENGTH:

4,400 (as a slurry with aggregate sand)

BOND STRENGTH:

535 psi (concrete failure)

DOT CLASSIFICATION:

Part B "not regulated"

Part A "not regulated"

VISCOSITY:

Less than 30cps typical

CURE SCHEDULE:

pot life (100 gram mass)1-4 minutes @ 70⁰ F
recoat or topcoat.....1 hour @ 70 degrees F
light foot traffic.....10-20 minutes @ 70 degrees F
(heavy traffic)...1 hour @ 70 degrees F

APPLICATION TEMPERATURE:

20-90 degrees F (lower temperatures will require additional cure time)

PRIMER:

Liquids from the kit are used for the primer (self priming)

TOPCOAT:

None required. However, many types of products can be used as coatings or overlays for the area that has been patched.

LIMITATIONS:

- * Because of the quick cure time for this product, it is best to work with one small area at a time.
- * If using static mixing equipment, If the material is allowed to stand for more than 1-2 minutes after initial use, then the material in the static mixing nozzle will cure. If the material in the mixing nozzle is allowed to cure, then the nozzle must be removed and a new nozzle attached. Do not point mixing nozzles toward eyes.
- * Color stability may be affected by environmental conditions such as UV light, high humidity or chemical exposure.
- * Product may discolor if exposed to certain types of light such as sodium vapor lighting.
- * Final cured product colors may vary from batch to batch and be influenced the by silica aggregate when used.
- * Substrate temperature must be 5⁰ F above dew point.
- * All new concrete must be cured for at least 30 days prior to application.
- * When applying material in cold areas, make sure the surface is clean and dry. Also, it is best to keep the material and aggregate sand at normal room temperature.
- * See reverse side for application instructions.
- * Test data based on neat resin unless otherwise noted.
- * Physical properties are typical values and not specifications.
- * See reverse side for limitations of our liability and warranty.

MIXING AND APPLICATION

INSTRUCTIONS

- 1) **PRODUCT STORAGE:** Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be above 55⁰ F to prevent product crystallization.
- 2) **SURFACE PREPARATION:** All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble-free bond to the substrate. For repair of spalled concrete, a stiff wire brush can be used to remove all loose concrete. After wire brushing the spalled area, remove all loose dust and debris with an industrial vacuum.
- 3) **PRIMER:** The material is self-priming.
- 4) **PRODUCT MIXING:** The product has a 1:1 by volume mix ratio. Mix only an amount of material that can be used in 1 minute if mixing by hand. Product can be mixed with appropriate bulk guns and appropriate static mixing tips. Mix the material well before using
- 5) **PRODUCT APPLICATION:**



Apply a thin layer of the mixed liquids onto the concrete. For larger areas, it may be beneficial to use a small brush to spread the liquids to evenly cover the repair area.



Sprinkle dry sand onto the repair area until the level of sand fills the hole and levels the repair area until level with rest of the floor surface (left). Then saturate the sand with the liquid. Reapply more sand and liquid as needed until the area is built up level to floor (right)



Finally, trowel the floor to smooth out the area and remove any excess material. Allow the material to cure for ten to twenty minutes before foot traffic. For heavy equipment such as fork trucks, allow the material to cure for a half hour to an hour before using area that has been patched.

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. 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.