

600 RIGID EPOXY REPAIR

MEASURING: By Volume

600 ratio of 1 A · 1 B

INSTRUCTIONS

DESCRIPTION: ConServ 600 Rigid Epoxy Repair is a high strength epoxy designed for various applications where flexibility, tooling or detailed finishing is not required. Use only A and B liquid as a low viscosity rigid consolidant for decay, add 200-D thickener to create a paste for filling small to medium size voids or cast large voids by adding aggregate and a little thickener to hold the resins in suspension while curing. Casting large voids with the use of sand and or stone aggregate will minimize heat generation (exothermic reaction) and increase the volume with less epoxy. **The 600 epoxy is harder to sand and drill than our other epoxies. If unsure about product choice, call ConServ for tecnical support.**

NOTICE: ConServ epoxy product labels and literature are *color coded for proper identification*. Please take time to acquaint yourself with all labels, instructions and precautions before mixing. Due to the variety of uses, application methods and conditions that customers might use our products for, no warranty is written or implied.

WOOD PREPARATION: Normally, preparation involves removing most of the loose and soft decay close to solid wood prior to applying epoxy 600 as a liquid consolidant. Wood to be epoxied should be *clean and dry with a moisture content below 20%*. For vulnerable moisture prone areas that have sustained decay, consider first treating with liquid borate preservative 700-BC or 700-BD.

MIXING: You can put your mixing can or container on ice and keep it in the shade to delay curing and increase working time. Combine an equal volume of epoxy 600 components A and B in a mixing container. Blend thoroughly for 3 minutes by hand with a firm flat stick or use a powered paddle mixer for larger volumes. This can now be used as an epoxy consolidant. Add 200-D thickener to make a smooth epoxy paste. When casting large voids and using the 600 as a so called epoxy concrete, combine dry washed sand and or stone aggregate to the 600 A and B consolidant at a ratio of 1 part epoxy and up to a max. 3 parts of aggregate by volume. ConServ 200-D is used to thicken the 600 epoxy. Amounts are noted in the YIELD DATA. The 200-D is needed to prevent separation of epoxy from the aggregate during the curing process. After mixing the epoxy, don't expose it to freezing temperatures for approximately 48 hours in order to maintain a reasonable cure rate.

CAUTION: The A Resin may *crystallize* in prolonged cool storage and become cloudy or form crystals on the bottom of the can. This condition can easily be corrected and *does not* in any way alter or inhibit the effectiveness of the epoxy. Simply dissolve by gradually warming in direct sun, use a hair dryer, heat gun or carefully place the A can in hot water or a double boiler and stir gently until the material is almost clear. *Do not over heat*. Allow epoxy to regain normal room temperature before using.

APPLICATION: Apply ideally in a temperature range of 50°F-90°F to achieve a reasonably quick cure rate, but it can be used down to 35°F. The cure rate will be slower in *cold* weather so cover areas (esp. small ones) with polyethylene, insulated blankets, power blankets, or safely set up heaters to keep temperatures close to 50°F for faster curing. Large amounts of mixed epoxy will generate their own heat during the curing process. In **hot** weather mix small batches or use sand and stone to absorb heat. Applying epoxy to large timber will also help absorb heat. Always keep treated areas dry and when working in hot weatherhot weather, keep the epoxy out of direct sunlight. When using ConServ 600 as a liquid consolidant, it can be applied with a disposable brush and/or squirt bottle. Temporary forms or potters clay can be used to prevent epoxy from leaking out of affected areas and onto adjacent fabric. As with ConServ 100 flexible consolidant, drilling holes in and around the area to be stabilized can help to promote deeper penetration. Reapply more coats wet on wet for max, saturation. For surface repair of damaged areas after consolidation, ConServ 600 can be thickened with 200-D and applied as paste filler or cast into a mold or form. Surface patches are best repaired with the thickened epoxy paste and applied by putty knife or by filling *ConServ empty caulk tubes 901-32 or 901-16. Most areas should be flush filled to minimize tooling of the cured 901-92 pay.* In larger areas of missing or heavily damaged wood, the original shape is best maintained by casting the part using a form. This technique will require planning but can produce a smooth repair that needs minimal tooling to finish. Some release agents that can be used to cover forms for epoxy are glossy packing tape, polyethylene film or a thin coat of paste wax. Potters clay will stop an active leak and silicone caulk can be pre-applied to seal small voids. The addition of washed dry sand and or 3/16" to 3/8" stone aggregate becomes more cost effective as the size of the decay zone increases. Adding aggregate allows larger voids to be filled at one time because it absorbs some of the heat generated by the volume of curing epoxy.

CURING: ConServ 600 cure rate will vary depending on temperature. If a large amount of epoxy is mixed without the cooling effect of sand, stone or large timbers, excess heat (not good) can be given off by the exothermic reaction created from combining **600 A and B**. Cure time to be tack free is approximately 1-2 days at 72° F. Allow 2-5 days for a more complete cure at 72°F

CLEAN-UP: Reusable tools and equipment can be scraped with a putty knife, wiped clean with dry paper towels and then cleaned with white vinegar or acetone, if needed, prior to cure

SAFETY: Use common sense and good housekeeping. *Wear chemical resistant disposable gloves, eye protection, and work clothes*. Don't get epoxy on your skin or clothing. Work with good ventilation.

STORAGE: Ideal storage temperature is 50°F to 75°F. Keep epoxy cool and dry in tightlysealed containers. ConServ 600 rigid epoxy has a one year shelf life when stored at room temperature in closed containers. DO NOT expose any stored epoxy to freezing temperatures for prolonged periods, because this will promote crystallization of the A resin as mentioned in the **CAUTION** section.

TECHNICAL DATA

ΛR

By Weight

600 ratio of 1 19 ∆ · 1 R

	tio of 1 A : 1 B White Thicken	er added as	needed to make a thin slurry to a thick paste.
6 0 <i>0</i> t		Gel Time: Cure Time Cold temp to 35°F with	Fime: 4 fl oz = approximately 30-60 minutes @ 72°F 4 fl oz = approximately 60 minutes @ 72°F : 1-2 days @ 72°F (75% ultimate strength) rerature extends cure time, but 600 can be used down a wind protection. In hot weather avoid exposure to dight until the final cure is complete.
		Tensile St Operating Mixing Ra	oer 500 cps @ 75°F rength: 4,000 psi Range: -20° F to 160°F for cured epoxy Inge: 50°F to 90°F 1 year in unopened original containers
PACK	AGING:		0 is available in 10 gallon, 2 gallon, 1 gallon, 2 quart, int and 1/2 pint sets of A and B combined.
			YIELD DATA
600-1	 Yield for the (A + B @ 1:1 Yield for the (A + B @ 1:1 	e first line o I ratio) with e second lin I ratio) inclu) to 1-3 part ,310 cu. in).	deeded are approximate. If each size set is for that volume of epoxy or without 200-D thickener. It is each set for that volume of epoxy udes the addition of aggregate up to a ratio of 1 part as maximum of aggregate plus the 200-D thickener. A and B liquid only, or with 25 bags 200-1D thickener Aggregate fillers and 5 bags 200-1D thickener
600-2	2 Gallon set (462 cu. in.) 924 - 1,848 cu. in.		A and B liquid only, or with 5 bags 200-1D thickener Aggregate fillers and 1 bag 200-1D thickener
600-3	1 Gallon set (231 cu. in.) 462 – 924 cu. in.		A and B liquid only, or with 2.5 bags 200-1D or (2) 200-1D and (1) 200-2D thickener Aggregate fillers and 1 bag 200-2D thickener
600-4	2 Quart set (115.5 cu. in.) 231 – 462 cu. in.		A and B liquid only, or with 1.25 bags 200-1D or (1) 200-1D and (1) 200-2D thickener Aggregate fillers and 1 bag 200-3D thickener
600-5	1 Quart set (57.75 cu. in.) 115.5 – 231 cu. in.		A and B liquid only, or with 2/3 bag 200-1D thickener Aggregate fillers and 1 bag 200-4D thickener
600-6	1 pint set (28.875 cu. in.)		A and B liquid only, or with 1/3 bag 200-1D or (1) 200-2D thickener

Aggregate fillers and 1 bag 200-5D thickener

A and B liquid only, or with 1 bag 200-3D thickener Aggregate fillers and 1 bag 200-6D thickener

57.75 -115.5 cu. in.

600-7 ½ pint set (14.437 cu. in.) 28.875 – 57.75 cu. in.