

# AQUA•RESIN®

## Coverage

All computations below are based on a typical mix of one part “L” Liquid to 3 parts “S3” Powder by weight. (Less powder will yield less volume and more powder will yield more volume.)

## Total Volume

1 part “L” Liquid plus 3 parts “S3” Powder by weight will yield a mix that is roughly equal to twice the volume of the original volume of “L” Liquid alone.

Example: one 5 gallon pail of “L” (43 lbs) plus 3 pails of “S3” (3 X 43 lbs) will yield approximately 10 gallons of “L/3S3” mix. This will weigh: 4 x 43=172 lbs.

Likewise, one gallon “L” (8.8 lbs) mixed with one 26.4 Lb pail “S3” will yield approximately two gallons of mix (35.2 lbs, or 17.6 lbs/gal.)

## Coverage per Volume

One gallon of a 1L/3S3 Mix, (17.6 lbs.) equals 231 cubic inches; therefore one gallon will cover 231 square inches at one inch thickness. At 1/8 inch thickness, the coverage would be 1,848 square inches.

## Adding Fiberglass

The vast majority of users will be adding fiberglass for lamination. The maximum % by weight that a normal L/S3 mix will accept, for the 4 fiberglass fabrics are in the chart below.

## Square Footage/ Some Actual Applications Including % Fiberglass

Fiberglass Used	% by weight fiberglass added	Thickness		Lbs 1L/3S3 per Sq Ft	Suggested Application
Aqua-Axial-2 (3 layers)	+20%	9/64”	0.14”	<b>0.95</b>	Lamination
3 ½ - 1” Aqua-Glass (thick application)	+16%	5/64”	0.085”	<b>0.645</b>	Thin Walled Lamination
30 mil Aqua-Veil (2 layers)	+5%	4/64”	0.07”	<b>0.5</b>	Foam Coating, Thin Walled Lamination
Aqua-Axial-2 (1 layer)	+20%	3/64”	0.05”	<b>0.328</b>	Foam Coating, Thin walled lamination
30 mil Aqua-Veil (1 layer)	+5%	2/64”	0.04”	<b>0.263</b>	Foam Coating
10 mil Aqua-Veil (1 layer)	+5%	1/64”	0.02”	<b>0.19</b>	Foam Coating

Other thicknesses and combinations of fiberglass fabrics can be extrapolated from the chart above.

## Coverage Facts:

1. Based on a mix ratio, by weight, of 1 part L to 3 parts S3, (total 4 parts), dividing the total by four will give you the weight of the L Liquid. The remainder is the S3 Powder weight.
2. Always incorporate *Aqua-Glass™*, *Aqua-Veil™* and/or *Aqua-Axial-2™* into the layer for strength. Use a fiberglass roller when possible.
3. When coating foam, the density of the foam will help determine the appropriate thickness of the covering layer: the denser the foam, the thinner the coating layer can be. However, EPS, to retain flexibility, would require a thinner coating than open cell foam (*Styrofoam®*). Use 30 mil *Aqua-Veil* when coating foam in most circumstances, or *Aqua-Axial-2* for extra strength.
4. The appropriate thickness of "L"/"S3" laminations is typically overestimated by the end user. Most thin walled laminations with *Aqua-Glass* or *Aqua-Axial-2* need be no thicker than 1/8"; foam coating layers with 30 mil *Aqua-Veil* or *Aqua-Axial-2* typically need be no more than 1/16 of an inch.
5. Actual coverage will vary among different users, application techniques, and with fiberglass content. Figures in the coverage chart are calculated using optimum application conditions.
6. Mixing one part L to **two** parts S3, by weight, will yield a volume increase of approximately 10% less than twice the volume of the L Liquid alone.
7. These numbers were obtained by using a fiberglass roller. Where possible, the use of a fiberglass roller is recommended.

*Please note the information provided here is only a guide and may vary from actual results achieved. The user is advised to conduct their own trials to determine the best coverage for their particular application.*

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