Johnson Fiberglass & Resin, Inc.

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Application Instructions For Repairs With Polyester Resin

When using polyester fiberglass resin, do not use redwood, cedar, oak, treated plywood, or other close grain woods. On boats, use marine grade plywood. If glassing over foam, make sure it is polyurethane foam or PVC foams, do not use styrofoam.

Application for wood: Do not apply to wet surfaces. Apply a coat of Johnson's Fiberglass Resin. If the first coat soaks in, apply a second coat. Once the resin becomes tacky, begin applying the fiberglass fabric. Starting from one end, unroll the fabric working out the wrinkles. Apply mixed resin and hardener using a brush or roller. Work out all of the bubbles and wrinkles. Additional layers of fiberglass fabric can be applied before or after the previous layer has cured.

At 77˚, resin will gel (harden) in approximately 15 to 30 minutes. In warmer temperatures, 90˚, reduce the amount of hardener. At lower temperatures, 65˚, increase the amount of hardener. Applying resin, when temperatures are below 60˚, may cause the resin not to cure thoroughly. Do not return unused resin & catalyst mixture back in to the containers. After resin is hard, it can be sanded and will accept any type of gelcoat.

Instructions for metal surfaces: Remove paint, varnish, dirt, and other foreign material. Rough sand or sand blast, depending on the metal. The rougher the surfaces, the better the bond. Surfaces must be dry. Application for metal is the same as wood.

If color is required, tint resin with Johnson's color pigments, using no more than 4 oz. of pigment color per gallon of resin.

Mixing instructions: Determine the percentage of catalyst for polyester resin. Mix only the amount of resin that can be used in 15 to 30 minutes. Stir mixtures thoroughly before using. **Do not mix or store catalyst in a metal container, it will catch on fire.**

Resin + 1% Mekp (Hardener)	Gelcoat + 2% - 4% Wax Solution	Gelcoat + 2% Mekp (Hardener)
1 ounce Resin + 5 drops	1 ounce Gelcoat + 10 – 20 drops	1 ounce Gelcoat + 10 drops
1 pint Resin + 5 ml	1 pint Gelcoat + 10 – 20 ml	1 pint Gelcoat + 10 ml
1 quart Resin + 10 ml	1 quart Gelcoat + 20 – 40 ml	1 quart Gelcoat + 20 ml
1 gallon Resin + 40 ml	1 gallon Gelcoat + 80 – 160 ml	1 gallon Gelcoat + 80 ml

Catalyst Quantity Chart

Catalyst Concentration	Quart	Gallon	5 Gallons
½ %	5 ml	20 ml	100 ml
1 %	10 ml	40 ml	200 ml
1 ¼ %	12.5 ml	50 ml	250 ml
1 ½ %	15 ml	60 ml	300 ml
2 %	20 ml	80 ml	400 ml

The above charts provide the recommended ratio at 76˚ F.

Assumptions:

1. Resin weight 9.5 lbs per gallon
2. MEKP specific gravity 1.1
3. Catalyst quantities rounded to the closest convenient unit

All chemicals are toxic and/or flammable. Caution and safety equipment should always be used. See Material Safety Data Sheets for more details.

Emergency Contact:
CHEMTREC (800) 424-9300
24hrs/7days

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