

SKID PLATE KIT FOR **ROYALEX CANOES**

IMPORTANT:

Please read instructions completely before beginning installation. Resins have a limited "working" time once mixed before they solidify. Realizing you are missing an essential item after you have mixed the resin can result in the resin curing before the installation is complete. Working time is affected by temperature and to a lesser degree by humidity. Generally, the warmer the temperature the shorter the functional working time. Lower humidity is preferred for quality cure but is a less critical issue than temperature. Ideal temperatures for this resin are from 68-75°F. These temperatures will provide an average working time of 30 minutes for properly mixed resin.

Work in a ventilated area, outside if possible or provide a positive ventilation flow if indoors such as with a fan. Wear the gloves provided with the kit and long sleeve shirt and pants. Wear eye protection while working with this kit. The use of a NIOSH approved respirator is recommended.

CONTENTS OF KIT

- 1 Resin "A" (Large can)
- 1 Resin "B" (Small can)
- 2 Kevlar felt skid plates
- 1 Sandpaper
- 1 Foam sanding block
- 1 pair, Rubber gloves
- 1 Instructions

OTHER MATERIALS AND TOOLS **REQUIRED**

- Quart sized uncoated paper mixing container or can.**
- Do not use plastic container such as a milk jug**
- Disposable 1 1/2" brush with stiff synthetic bristles**
- 7" foam roller cover and handle**
- Stick to mix resin**
- 18"x48" piece clean cardboard**
- Clean, dry rags**
- Corrugator or plastic squeegee**

- 1" or wider Masking tape**
- Measure & Non-permanent Marker**
- Saw horses or similar canoe support**
- Denatured alcohol**

INSTALLATION PROCEDURE

- 1) Collect and organize all necessary items.
- 2) Place the canoe, rails down on suitable work surface such as sawhorses. Set the supports at least 3' in from each end of the canoe. Later in the procedure the canoe will be flipped over to allow the skids to cure and you don't want to have skids contact the supports.
- 3) Determine where you want leading edge of bow plate to be by draping felt, narrow end towards end of the canoe, over hull. For boats with a lot of rocker, you may want to position skid plate 8-10" from junction. On canoes with less rocker consider moving end of felt to 6-8" from junction. Mark position on stem Measure down 6-8" from junction of hull and bow deck. Make a mark on stem at this point. Repeat process for stern end. Bear in mind that the nature of wear on the stern of a canoe differs from that on the bow. Consider positioning the stern plate somewhat lower to protect the hull as it drops down ledges.
- 4) Tape the front edge of skid felt at mark desired. Smooth and pull the felt until it drapes smoothly over the hull. Check to make sure felt is aligned along center line of canoe and tape rear edge in place. Repeat process with felt at opposite end.
- 5) Trace edge of each felt with marker. Remove felts and use 80 grit sandpaper to roughen up the hull within the lines. Sand entire area within lines thoroughly but not too heavily.
- 6) Using denatured alcohol, wipe down sanded areas. Take care to keep area clean. Take the masking tape and surround the sanded area at a distance of about 1 1/2 to 2". This will contain some of the inevitable drips and runs.
- 7) Wearing gloves, slowly pour contents of larger can A into mixing container. Carefully add the contents of the smaller can B. Stir the mixture for several minutes until it is uniform in color and viscosity. Since it is essential that the mix be fully blended, don't hesitate to stir it a bit more than might seem necessary.
- 8) Pour about 1/2 the mix down the center of the piece of cardboard. Spread the resin to approximate length and width of the felt. Lay the felt on the resin. Using the roller and brush push the felt into the resin saturating the felt from the bottom up. The felt will become darker and a little more

translucent as it becomes saturated. Work from the center of the felt towards the edges. If necessary, pour a small amount of the resin down the center of the felt and work into the fibers.

9) Carefully pick up the felt and place it into position on the hull, using the mark on the hull to place the felt. Now leave the first felt and return to the cardboard and repeat the process with the other felt.

10) Once both felts are in place on the canoe, it's time to start smoothing out wrinkles and removing air bubbles. Work from the center of each felt towards its edges and alternate between both felts. It's not unusual for a felt to extend the marks traced when the felt was dry. In areas where there is a high degree of curvature, work the felt along the curve.

The Voyageur Corrugator makes the process of smoothing wrinkles and removing bubbles easier and faster. Starting at the center of the felt, roll the Corrugator towards the edges of the felt with a steady even pressure. This will also help remove excess resin as well as smooth the felt.

11) Keep a rag handy to wipe away any resin dripping or seeping from underneath the felts. If resin has become tacky, place some alcohol on the rag and wipe again.

12) When wrinkles have been reduced as much as possible and bubbles have been removed, use the brush and tamp the edges of the felts to get them to lay flat.

13) Flip the canoe over. Be careful handling the ends of the boat and avoid contacting skid plates with hand or clothing. Let the resin cure for a minimum of 24 hours.

14) Responsibly dispose of all used materials. If installation done indoors, remove any resin bearing materials to the outside. Make sure all resin has cured before disposing of in a closed container.

15) If desired, skids can be lightly sanded to remove any fuzz or rough spots. Use 100 grit sandpaper and proceed lightly. Kevlar will fuzz or burr up is sanded too heavily.

16) Skid plates can be painted to match your hull if desired. This will not increase the durability of the plate but is a cosmetic choice. Obtain matching paint from your canoe manufacturer. Tape off the hull around the plate, using newspaper to make a drape-shield. For maximum durability, apply a number of light coats of paint rather than one heavy coat.

PRECAUTIONS & SAFETY GUIDELINES

WARNING: This kit contains hazardous materials. Be sure to follow all precautions included with kit. In addition, please read and abide by the following guidelines to ensure safe use of the materials in this kit.

- 1) Do not use near open flame.
- 2) Keep out of reach of children.
- 3) Ensure adequate ventilation. The best location for use of the kit materials is outdoors. If this is not practical make sure there is a positive ventilation flow during indoor use. Easiest way to accomplish this is to set one or more fans so that they pull air away from the worksite. Try to position fans so they exhaust vapors to the outdoors.
- 4) Use of a NIOSH certified respirator with organic vapor cartridge is essential if installation is performed indoors.
- 5) Wear a dust/mist respirator/mask when sanding or preparing any surface.
- 6) Minimize contact with kit materials and skin and eyes. Use safety glasses and goggles. Wear the gloves provided with the kit and long sleeve shirt and pants. Remove clothes worn while working with the kit ASAP and launder separately or dispose of.
- 7) Store in an appropriate location that is dry, cool, and removed from any heat source. Keep materials from freezing.
- 8) Dispose of residue and empty containers according to Federal, State, and/or local Environmental Regulations. Allow all resins to cure hard before placing in any type of closed container.

EMERGENCY FIRST AID PROCEDURES

In event of:

- 1) **EYE CONTACT:** Flush eyes with fresh water for 30 minutes. Contact a physician immediately.
- 2) **SKIN CONTACT:** Remove uncured product with a dry cloth. Wash skin repeatedly and thoroughly with soap

and water. Do not use solvent to remove product from skin. Contact a physician if irritation develops.

3) **INHALATION:** Remove to fresh air. Contact physician if discomfort persists.

4) **INGESTION:** Call local poison control number. Have product label at hand to assist in identifying contamination and proper response.

SPILL OR LEAK PROCEDURE:

1) In event of resin spill, contain spill spread and cover with dry absorbent material such as sand, sawdust, or cat litter. Scoop up residue and place in appropriate container. Wash area with soap and water.

MSDS (**M**aterial **S**afety **D**ata **S**heet) information about the materials included in this kit is available upon request by calling 1/800-311-7245 during normal business hours, Monday - Friday.

INSTRUCTIONS

Skid Plate for Royalex Canoes



*For information
or assistance, contact us at:*

P.O. Box 4339

Archdale, NC 27263

1-800-311-7245

www.voyageur-gear.com

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