

4.2 FLEXIBLE BONDING REPAIRS

4.2.9 KITESURF'S BREAKAGE REPAIR (TEAR)

DESCRIPTION: Example showing how to repair a tearing on a Kitesurf sail weighing between 0.5 and 0.75 ounces.

REPAIR TYPE:

flexible, bonding, fortifying, dry

MATERIAL TYPE:

Nylon

MULTIPLE USES:

Sailboat, sails, windsurf, kitesurf

USED PRODUCTS: DS25

RELATED PRODUCTS: SM10, DS10, SM25

RELATED TIPS & TRICKS:

Mainsail's emergency repair (main leech), Jib's emergency repair (batten pockets), Jib's emergency repair (tear), Spinnaker's emergency repair (overlap peel off), Spinnaker's emergency repair (leech tear), Windsurf's emergency repair (tear), Windsurf's emergency repair (overlap peel off)

1. SPOT THE REPAIR AREA AND CLEAN UP

1.1 Spot the damaged overlapping area

1.2 Clean up with acetone and a rag

1.3 Cut off the frayed threads

2. OVERLAPPING MATERIAL SETUP (PATCHES)

2.1 How to define the overlapping area

2.1.1 External overlap width

2.1.1.1 Based on the sail type

I. Strong winds: Allow 4 mm for each overlapping cm in relation to the breakage's symmetry axis

II. Moderate winds: Allow 2mm for each overlapping cm in relation to the breakage's symmetry axis

III. Light winds: 0mm

2.1.2 External patch length: Allow the breakage's length plus 5 cm on each side

2.1.3 Internal patch width: Same as the external

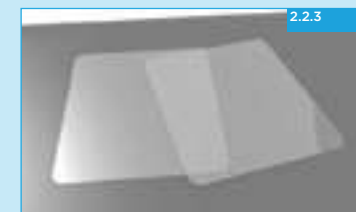
2.1.4 Internal patch length: Same as the external

2.2 Patch preparation: external and internal

2.2.1 Draw the outline over the internal patch

2.2.2 Cut the internal patch perimeter and round the corners

2.2.3 Repeat the same procedure for the external patch



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3. PASTE TAPE AROUND THE PERIMETER OF THE DAMAGE AREA

3.1 Leave a gap of 5 mm (approximately) between the overlap's edge and the tape

4. DS25 PREPARATION (DRSAILS 25ML)

4.a Remove the cap and level off the components

4.b Insert the nozzle

5. APPLY DRSAILS IN ZIGZAG ALL OVER THE INTERNAL OVERLAP'S AREA

5.1 The distance between the zigzag lines drawn should be between 1 and 3 cm

6. SPREAD DRSAILS UNIFORMLY THROUGHOUT THE OVERLAPPING AREA WITH THE HELP OF A SCRAPER OR SIMILAR DEVICE

7. PLACE THE PATCH SYMMETRICAL TO THE BREAKAGE AND APPLY PRESSURE TO THE PATCH USING A SCRAPER TO REMOVE THE EXTRA FLUID

7.1 Note: extra product should always be kept on a paper tape

8. WAIT FOR 22 MINUTES

9. REPEAT STEPS 5, 6 Y 7 FOR THE EXTERNAL OVERLAP

10. REINFORCE THE OVERLAP EDGES BY BONDING AUTOADHESIVE SAILCLOTH TISSUE AROUND THE OVERLAP'S PERIMETER TO IMPROVE PEELING RESISTANCE

10.1 Peeling reinforce can also be done by applying a "string" of DrSails around the overlap's perimeter and then spreading the mixture with the help of a scrapper or similar device

11. WAIT 22 MINUTES AND THE SAILS IS READY

