

## Luscombe Pliocel Fuel Bladder Repairs

### PLIOCEL REPAIR PROCEDURE

#### PERMANENT

The repair of damaged Pliocels such as tears, holes, cuts, loose support patches, and loose fitting rings should be made with the following specified materials and supplied in the standard Pliocel repair kit.

#### REPAIR MATERIALS

1. Pliocel Repair Fabric
2. 13920 Nylon Repair Cement
3. 50710 Chemigum Coating Cement
4. Mekol
5. Nedine
6. One Inch Paint Brush
7. Shears
8. 1/2 Inch Roller

#### REPAIR PROCEDURE

- A. Tears, holes cuts - All repairs of defects (except defects in seams greater than 1/4" which results in leakage of cells must be made with internal patches of Pliocel repair fabric. The patch must be cut to have a one inch lap from the edge of the defect. The repair should be made as follows:
1. Carefully wash the internal surface of the cell surrounding the defect with the makol to remove all oil, grease, or foreign material.
  2. Carefully trim the defect to remove rough edges or irregularities.
  3. Paint one coat of 13920 on the patch and one coat on the section of the cell to be repaired. Allow to dry until the cement is no longer tacky.
  4. Paint second coat of 13920 on same surfaces and allow to dry until tacky.
  5. Apply patch to defective section with the 1/2" roller, carefully rolling edges of patch with the roller and avoiding the trapping of air under the patch if possible, and place weight on the repair for a period of three hours.

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### REPAIR PROCEDURE (continued)

6. Paint two coats of 13920 over internal surface of repair and allow to dry.

7. Paint one coat of 50710 over external surface of repair.

#### B. Loose Seams, Support Patches, and Fitting Rings

Repairs may be made as in items 1, 3, 4, 5, and 6 above.

#### C. Defects in Seams Greater than 1/4 Inch and Which Cause Cell Leakage

Cells with such defects should be returned to the Goodyear Tire & Rubber Company.

### HANDLING OF CEMENTS

#### A. 13920 Nylon Repair Cement

1. If too thick for use, heat cement container in water at 140° to 150 ° until sufficiently thin.
2. Keep brush, while using, either in 13920 or in mixture of one part mekol and one part Nedine. Do not allow cement to dry on brush.

#### B. 50710 Chemigum Coating Cement

1. Add 1408C to 5070 in following ratio to make 5071C: 100 cc 1408 to one gallon 5070C.
2. Do not mix any more 5071C than is immediately required. The 5071C is an air curing cement and will jell in six to eight hours.
3. Use mekol to wash brushes used with 5071C (mekol can also be used to wash area of defect on outside of cell if necessary).

#### NOTE:

UNDER NO CIRCUMSTANCES SHOULD THE SAME BRUSH BE USED FOR BOTH 5071C AND 1392C.

The Goodyear Tire & Rubber Co.

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