ALAN HARPER COMPOSITES

e-brochure

To assist clients in identifying by process the essential products and equipment for successful Reusable Vacuum Membrane manufacture and use

Contents

- 01 Calibration
- 02 Membrane Manufacture Essentials
- 03 Moulded Into Membrane Flow Media
- 04 Vacuum Fittings & Pumps
- 05 Resin Injection
- 06 Heater Cloth For In-Membrane Electrical Heating
- 07 High Temperature & Autoclave
- 08 TopGear Spray Machine Spares & Accessories
- 09 Miscellaneous



CALIBRATION MATERIALS

102104

Reusable Seal Profile

vacuum channel and

silicone saving

moulded edge

Use to create perimeter

102151 15mm Sheet Wax Use to calibrate cavity between mould face and membrane



Use to cut thin wax strips for breather vacuum lines



102152

Wax Moulding Dough Sulphur Free Use to tidy and fill imperfections in calibration



102110 **Double Sided Tape** Use to temporarily bond seal profile to mould tool





MEMBRANE MANUFACTURE ESSENTIALS

102289
TopGear SilCon SIX
Silicone spray
machine

102150
Eco Anchor
Built into membrane
lifting eye



102174
Brush On Starter Kit
Complete kit with
instructions to create
up to 14m2 vacuum
membrane

102114

Disposable MixerSilicone spray machine

mixer nozzel



VBS26-35 Silicone
The best of British
platinum cure silicone

alan harper composites

102164
TA50 Thixotropic
Additive 30g
Use to rapidly
produce silicone paste

Moulded Silicone
Membrane Inserts
10, 12, 16 & 19mm

102176
Insert Moulding Kit
Mould your own inserts,
all sizes included plus instructions

Reinforcing Cloth 102109 Sheet per m2 102170 50mm wide x 100m roll

102171 100mm wide x 100m roll

MOULDED INTO MEMBRANE FLOW MEDIA





102153 ReFlow

Area with ReFlow

Vacuum membrane with 1 quarter moulded ReFlow

Moulded ReFlow

> Moulded Laminate

VACUUM FITTINGS & PUMPS



102182 Moulded Silicone Inserts
Use for built into membrane
vacumm connection





102124 ClearVacVacuum chamber
and catchpot





102160 TwoVac T



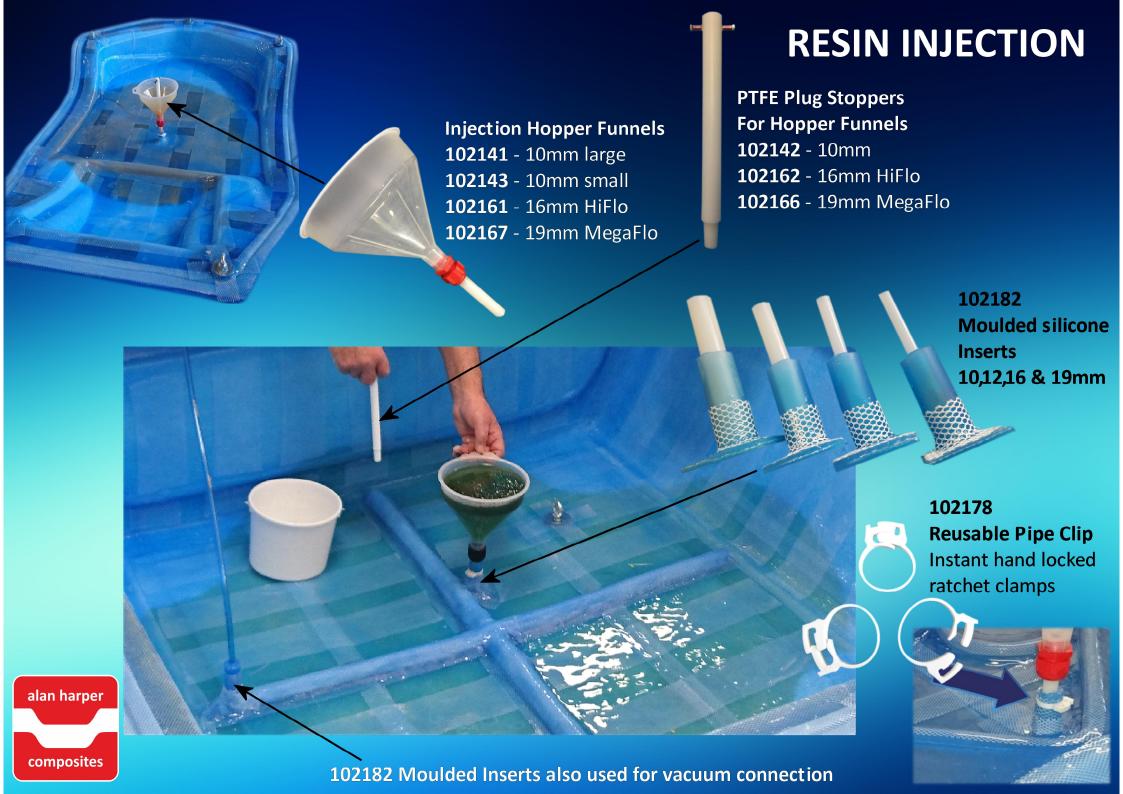


alan harper

composites

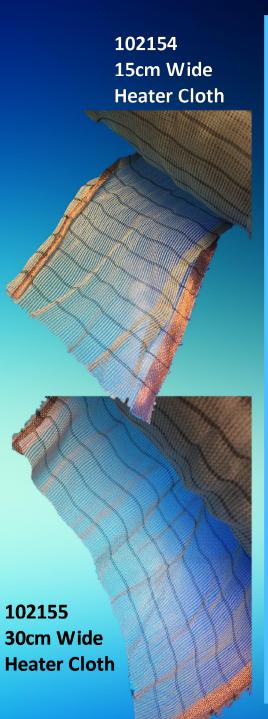


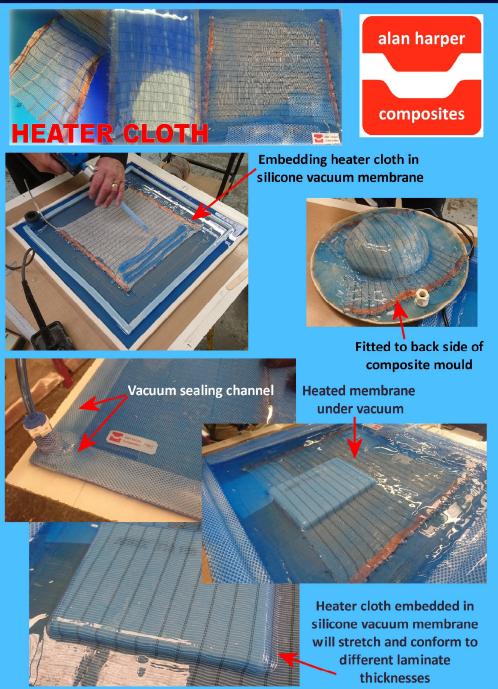
102288
MiniVac Station
Complete vacuum
pump with catch
pot and gauge



HEATER CLOTH FOR IN-MEMBRANE ELECTRICAL HEATING

The in-membrane electrical heating we offer incorporates the heat source directly next to the moulded part. With low thermal mass, offers enormous energy savings over traditional large scale industrial ovens and quicker heat up and cool down times all advantages that lead to faster cycle times. The low cost embedded heater cloth allows temperatures to be gained above 240C at low wattage and safe low voltages. Heat up times of 100C in 5 minutes are achievable and the unique feature of the heater cloth is that it can stretch and conform to different laminate schedules and thicknesses.

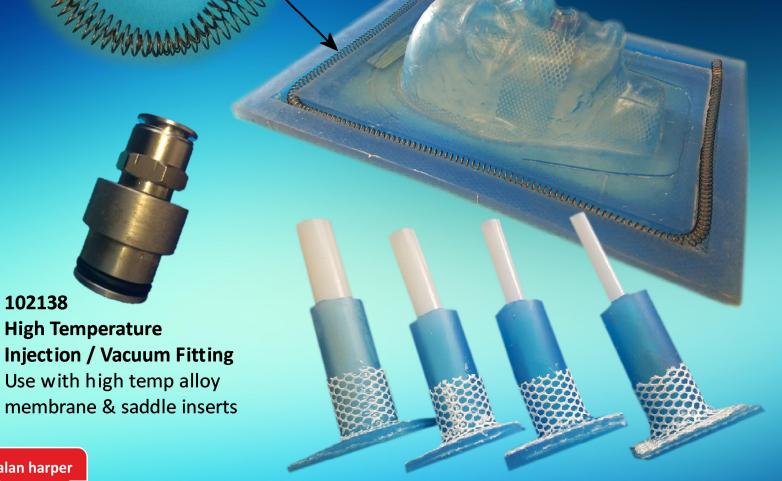






HIGH TEMPERATURE & AUTOCLAVE

102148 Autoclave Anti Collapse Spring Use to support edge seal cavity at higher pressures within autoclave



102138

alan harper

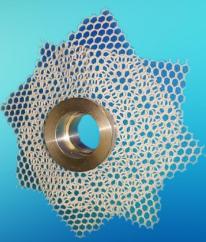
composites

High Temperature

Use with high temp alloy

102182 All Temperatures Moulded Membrane Inserts Injection / Vacuum Inserts Available for 10, 12, 16 & 19mm tube

102125 **High Temperature Alloy Saddle Insert** Use to inject resin into resin runner



102139 **High Temperature Alloy Membrane Insert**

TOPGEAR SPRAY MACHINE SPARES & ACCESSORIES





102290

TopGear Six Compact Flight Model

Smaller portable silicone spray machine designed to safely travel in aircraft cargo hold

MISCELLANEOUS

102186

Magloc Ejector Composite mould

air ejector



Use for split mould and return flange vacuum sealing





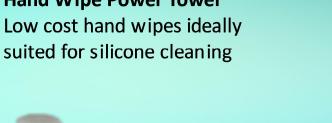
102127 **Hand Wipe Power Towel** Low cost hand wipes ideally

Silcoset 153

Reusable vacuum membrane repair kit

102113 75g

102121 310g





SILFLON a low cost coating to extend the life of a reusable vacuum membrane, particularly useful for epoxy resin users 102163 125g

102172 510g



PLE58R Pot Life Extender Use when mixing brush on silicone to extend workable time

