

# FIBREGLASS REPAIR ADVICE

NATUREWORKS SCULPTURE REPAIR ADVICE - MINI GOLF COURSES



# WORKING WITH FIBREGLASS- GENERAL REPAIR INSTRUCTIONS

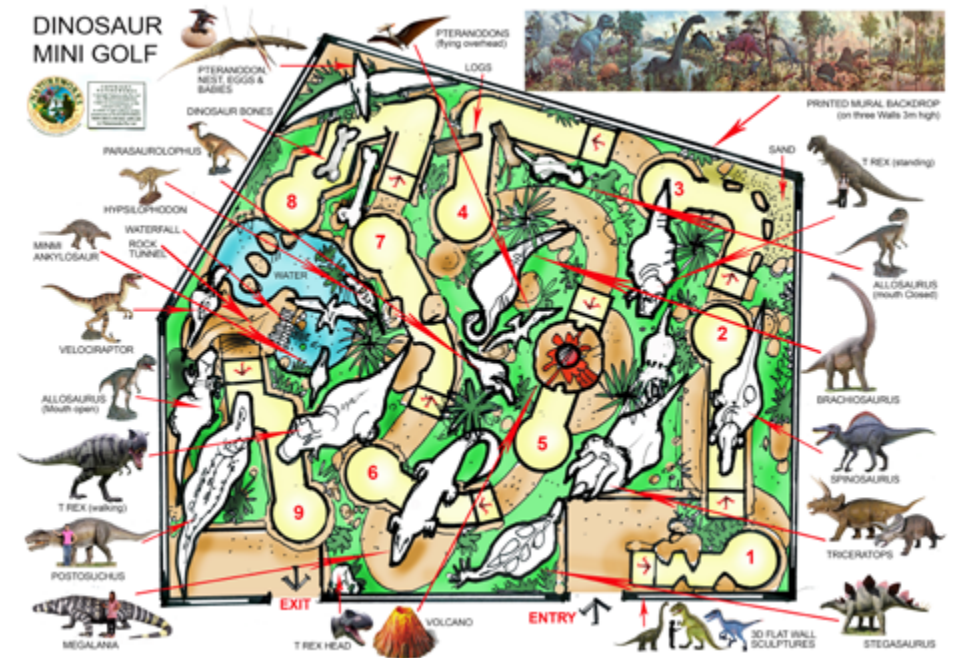
## NOTES TO MINI-GOLF COURSE OWNERS

- It is impossible to provide many of our mini golf props so as to be indestructible
- Certain players seem to be determined to use the putting sticks as weapons
- Operators of mini golf courses need to use cameras and signage, and preferably a loudspeaker system to threaten consequences if players are caught vandalizing the course.
- It is inevitable however that damage will occur and we recommend that owners should expect the caretakers managing the course to undertake basic maintenance and cleaning as part of the job description.
- We are often engaged to provide a maintenance and repair contract on courses we build close to Brisbane where we are based. It is impractical to provide this service further afield.



## REPAIR KIT & ADVICE

- The majority of repairs are able to be undertaken by a practical basic handyman with access to Bunnings and or Supercheap car accessories.



[VIEW ON WEBSITE](#)

### **CONTACT FOR HELP**

- A good toolbox, with phone number access to an advisor if required such as Natureworks and David Joffe (0411547434)

### **CAR BOG - FILLERS**

- Small tin of polyester car bog with catalyst- From Supercheap auto
- Small tin of car glass fibre bog/filler with catalyst. From Supercheap Auto

### **GLUES & RESINS**

- Supa glue, both thin and thick
- 5-minute 2-part epoxy resin (Araldite)

### **TALC / BABY POWDER**

- A small quantity of talc/baby powder as a thickener for making the bog drier and more thixotropic prior to adding catalyst, as required by the repair

### **ACETONE**

- Small container of acetone

### **NOTE:**

- Do not use acetone or polyester bog/putty against white polystyrene foam substrates as it will dissolve the foam. Instead use epoxy glues, putties or” knead it”, against white styrene.
- For most repairs the cheaper polyester car bog is adequate, again use thickening talc to manipulate the consistency so it does not slump excessively, then catalyse and use acetone on a brush to wet sculpt the repair. In most cases, this is adequate without sanding.



## REPAIR ADVICE & TOOL BOX CHECKLIST

### PAINT- FOR TOUCH UPS

- Touch-up artist acrylic water-based paints as tube sets, the cost is only about \$10.00. These are adequate, sets of artists' oil paints are also acceptable
- How to:-
- " Knead It" is a two-part epoxy putty for fillers for use against polystyrene substrates and for strong repairs. This can be mixed, the hole filled, and then a brush wet with a little bit of acetone is used to shape the repair before it hardens. Once hard this can be sanded smooth if required prior to the use of touch-up paints.

### PAINT SPRAY CANS BRUSHES

- 4 or 5 enamel spray cans of cheap automobile paint, black, white, red, yellow ,brown as required

### SANDPAPER

- Sandpaper 80 and 120 grit
- Methylated spirits

### PAINT BRUSHES

- A range of small ½ to 1-inch artists brushes." Eterna" brand long wooden handled brushes are excellent and cheap

### MIXING & PAINT CONTAINERS

- Paper cups and plastic lids to mix on
- Wooded mixers such as tongue depressors or the like for mixing.
- Assorted small jars and tins with lids.

### CLEAN UP

- Rags - for clean up and wiping
- Methylated spirits
- can be sanded smooth if required prior to the use of touch-up paints.



## REPAIR ADVICE & TOOL BOX CHECKLIST

### TOOLS

- Battery drill and set of drill and drive bits
- A 4-inch angle grinder with cutting and sanding discs
- Sticky tape and masking tape
- General tools, hammer, snips, pliers, tape measure, string

### NAILS , SCREWS AND WIRE

- A range of jolt-headed nails
- A range of nails and screws
- Galvanized tie wire of different sizes to use as strengthening pins in glue /bog repairs where extra strength may be required

