



KNOW YOUR FIBERGLASS

It is one of the largest components of your water park. You inspect it, wax it, and clean it. All in the hope that it will retain its peak performance for seasons to come. But how much do you really know about fiberglass?

THERE ARE OVER
40,000

APPLICATIONS FOR FIBERGLASS

Fiberglass, or FRP, which stands for fiber reinforced plastics, has been in production since the 1930s when it started gaining ground as a thermal insulation material for buildings. Some of the applications, other than water slides, are:

- Bathtubs
- Boats
- Cooling Towers
- Grating
- Orthopedic Casts
- Signage

FIBERGLASS IS MADE BY COMBINING TWO CONSTITUENT MATERIALS

PLASTIC MATRIX + **REINFORCEMENT** = **POLYMER COMPOSITE**
(E.G. POLYESTER, EPOXY) (E.G. E-GLASS OR CARBON FIBER) AKA **FIBERGLASS**

The result is a material that is lightweight, corrosion, chemical, and rust resistant, stronger than many metals by weight, non-conductive, and mouldable into complex shapes.

WHY THE PROCESS MATTERS

RESIN TRANSFER MOULDING (RTM)

- Smooth on both sides
- Consistent results
- Lower emissions and waste
- Less labour intensive

OPEN MOULDING (OM)

- Smooth on ride side
- Better suited for larger pieces
- Suitable for complex designs
- Lower volume

HERE'S WHAT TO PAY ATTENTION TO

FINISH

Regardless of process, interiors and exteriors should be smooth and homogeneous.

TOPCOAT

Look for gelcoats that contain an isophthalic polyester and built-in UV protection.

JOINTS & FLANGES

A good place to check for quality such as leaks, joint compound, and material flaws.

MANUFACTURING PROCESS

RTM FRP is the gold standard, but OM can be better suited for larger parts.

RESIN AND FIBERS

The resin and fibers used will determine the finish and fire retardancy.

DON'T UNDERESTIMATE THE IMPORTANCE OF COLOUR

Create a look and feel unique to your park with colour combinations and designs to elevate your brand. A photo-worthy slide is a differentiator and marketing opportunity.



DOWNLOAD TO SEE THE COMPLETE COLOUR GUIDE.



FINISH OPTIONS THAT ENHANCE THE EXPERIENCE

Transform fiberglass with Translucent, AquaLucent, Metallic Paint Finishes, or Thematic Veils—each producing unique effects that boost ride experience and curb appeal.

TRANSLUCENT FIBERGLASS:

Translucent FRP is created using a special resin and fiber formulation in the manufacturing process. This type of fiberglass is a great way to let light into enclosed slides and to build excitement amongst spectators who can see riders speeding by.



METALLIC ACRYLIC PAINT:

Metallic Acrylic Paint finishes add a touch of glam or sparkle to the non-ride-side of a water slide. Applied before the topcoat, this finish comes in a variety of colours that will elevate your attraction.



STANDARD AQUALUCENT DESIGNS:

AquaLucent fiberglass is made by painting sections to create opaqueness while leaving other sections translucent, in a fun array of patterns and shapes.



CUSTOM AQUALUCENT*:

AquaLucent patterns can be used to increase the feeling of speed or to add surprise bursts of light in otherwise dark flumes. This type of finish is also a great way to incorporate your park’s logo or IP.



**Please consult with WhiteWater for pricing and estimated times.*



POTENTIAL VEIL DESIGNS AVAILABLE:

Veils are a graphic overlay that are added during production, allowing for fun and colourful theming options directly on your slide. They’re an easy way to add a theme or logo to a slide to create an immersive and eye-catching slide.



DOWNLOAD OUR WATER SLIDE AND TOWER FINISHES BROCHURE TO SEE MORE.



WHAT'S AGING YOUR SLIDE?



UV EXPOSURE



HUMIDITY



EXTREME WEATHER



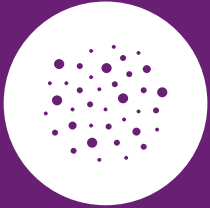
WATER QUALITY



CALCIUM BUILDUP



ZIPPERS AND SHOES



SAND AND DUST



POLLUTION



LOW QUALITY
CLEANING SUPPLIES



INCONSISTENT
MAINTENANCE

HOW LONG WILL FIBERGLASS LAST?

The longevity of your water slide fiberglass depends on several factors (*see: What's Aging Your Slide?*)—some within your control and some not. Structurally, fiberglass, when properly maintained, can last well past 20 years. Aesthetically, you may want to replace the FRP before then, especially if it hasn't been regularly maintained. Your fiberglass should be professionally inspected if the water slide is five years old or older.

STRUCTURALLY

20+
YEARS

AESTHETICALLY

CASE
-by- **CASE**

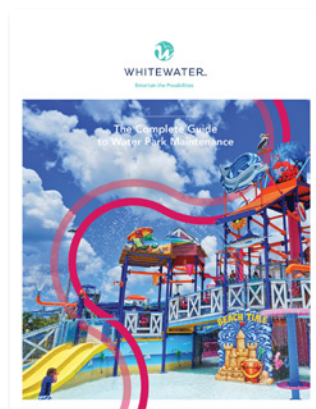


OUR FRP MEETS GLOBAL SAFETY STANDARDS

All of WhiteWater's composites can be configured to meet British Standard's Class 1 rating per BS476-7, as well as exceed ASTM E1354 requirements for fire retardancy, upon request. Please note that this can help to slow the spread of fire, but not prevent it. As global company, we can meet any regional standard.

CARE & MAINTENANCE

How you care for your slide will greatly determine how long it stays in bright, smooth, and safe working order. Our handy maintenance guide includes every checklist you could need to ensure you're managing the life cycle of your slides and keeping them in operation for years to come and out of landfills.



DOWNLOAD
THE COMPLETE
GUIDE TO
WATER PARK
MAINTENANCE



UPCYCLING YOUR FIBERGLASS

As part of our commitment to Sustainability, we have developed upcycling uses for end-of-life FRP that we have supported in our own community. To learn more, access our upcycling pamphlet [HERE](#).

To learn more about what sets WhiteWater's fiberglass apart from the rest, visit our **Fiberglass 101** site for access to our exclusive webinar, galleries, and more.

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