

## **GRP SWIMMING POOLS**

Reichhold has delivered gelcoats, based on unsaturated polyesters, for the production of swimming pools for many years. Through these years, experience and extensive testing have given us information about which parameters result in changes of the gelcoat surface. This is information that we like to share with our customers.

Surface changes, like chalking and/or bleaching after chlorine exposure, or yellowing after UV exposure, are cosmetic problems and not destructive to the pool itself. Normally the surface can be upgraded to almost original colour and gloss by use of wet sanding and/or rubbing pastes.

The four main parameters that, to our best knowledge, influence the properties of a GRP swimming pool, are:

1. **Material selection**, all materials used for the production of the swimming pool must be carefully selected
2. **Production methods** for the laminate must be chosen with the goal of attaining the highest product quality possible. All those involved in production of the laminate must be aware of the recommended procedures and their importance in final product quality.
3. **Operating the swimming pool**
  - *Choosing the right disinfecting agent* (active oxygen or other chlorine free disinfecting agents will reduce problems with chalking and bleaching of colour compared to agents containing chlorine)
  - *Concentration of the disinfecting agent* (chlorine disinfecting agents used in too high a concentration will result in more rapid chalking and/or bleaching of colour)
  - *The pH-level in the pool* (this must be controlled by the pool owner and chlorine suppliers generally recommend a pH level between 7.0 and 7.6)
  - *The temperature in the pool* (high temperature in the pool will have an accelerating effect on surface changes)
4. **Maintenance** -conducting the best possible maintenance of the pool surface, such as cleaning and rubbing at regular intervals.

As this information shows, parameters that Reichhold have no influence over will affect the cosmetic appearance of the swimming pools gelcoated surface. As a consequence of this Reichhold neither guarantees nor indicates how long the swimming pool surface will keep its original appearance.

The information herein is to help customers determine whether this product is suitable for their applications. Our products are intended for sale to industrial and commercial customers. Customers should inspect and test our products in specific applications to satisfy themselves as to suitability. Customer acknowledges that any technical advice or formulations suggested by Reichhold are furnished free of charge and Reichhold assumes no obligation or liability for the advice given or the results obtained. We warrant that our products will meet our written specifications. Nothing herein shall constitute any other warranty expressed or implied, including any warranty of merchantability or fitness for a particular purpose, nor is protection from any law or patent to be inferred. All patent rights are reserved. All claims for any cause whatsoever (whether such cause be based on contract, negligence, strict liability, other tort or otherwise) shall be deemed waived unless made in writing and received by Reichhold within thirty (30) days after customer's receipt of the Product. The exclusive remedy for all proven claims is replacement of our materials, and in no event shall we be liable for special, incidental, or consequential damages. Failure of Reichhold to receive written notice of any such claim within the applicable time period shall be deemed an absolute and unconditional waiver by customer of such claim irrespective of whether the facts giving rise to such claim shall have then been discovered or of whether processing, further manufacture, other use or resale of the Product shall have then taken place.