

Product handling information for pool products

Polystone® sheets have been used very successfully for decades for the construction of swimming pools.

The special advantages of this material are the very long service life, the high surface quality and the good processability. In particular compared to pools with tile lining, the great advantage of the homogeneously processed slab is expressed, since there are no mineral and corrosion-prone joints.

Compared to GfK pools, pools made of Polystone® sheets have significant advantages due to their high toughness and resistance to cracking / tearing.

Technically speaking, a welded pool of Polystone® sheets is one of the best solutions available on the market in the eyes of many processors and customers.

Optical properties

Due to the nature of polypropylene, creeping color changes of Polystone® sheets, when used in swimming pools cannot be completely ruled out. Even the highest stabilization systems, as used by Röchling in the latest and highest-quality modification Polystone® PGX, cannot completely prevent discoloration. These optical changes have no negative impact on the material in terms of overall strength, suitability, quality and service life, are not part of the warranty and are not a defect.

Possible optical color changes are on the surface of the materials and appear bright to white. Therefore, light colors are less susceptible to optical changes. In particular, white colored panels offer significant visual perception advantages over darker colors.

We recommend to fabricate a pool from one batch of Polystone® P sheets in order to prevent different colour shades within the pool body.

Recommendations for pool water treatment

When dosing chlorine-based chemicals into pools of Polystone® sheets, the following recommendations should be considered:

- 1) The parameters and maximum chlorine concentrations specified in EN 16713-3 must be adhered to in order to maintain the color stability of the materials as far as possible.
- 2) Liquid agents should not be applied directly to the pool without mixing with pool water. Chlorine tablets should be applied in such a way that their progressive dissolution is guaranteed throughout the pool - in skimmers or floats. The electro chlorination is adjusted to produce the right amount of chlorine permanently.
- 3) In order to ensure a rapid dilution of chlorine in water, sufficient water circulation in the pool is required. It is necessary to carefully consider the combinations of each type of water disinfection with respect to the final chlorine in the water. Undiluted or insufficiently diluted liquids or tablets should not come into direct contact with the material. Otherwise, irreversible dot blurs may occur.
- 4) When using gaseous chlorine, chlorine dioxide or other disinfectants and methods, it is recommended to discuss in advance the compatibility of Polystone® plates with Röchling.

Weatherability

We recommend Polystone® PGX for use as pool material. This product contains several synergistic stabilizers of the latest generation to achieve the best possible UV resistance and color fastness.

The weathering stability of the materials has been further developed over decades and is permanently checked in storage basins and accelerated weathering tests under accelerated conditions.

Scratch protection

The sheets are provided with protective foil as standard to prevent damage caused by scratches during transport, handling and installation of swimming pools.

Protect the foiled sheets and basins from direct sunlight to avoid film removal problems. The film should be removed immediately after the pool installation; in case of delayed installation, remove the foil no later than 4 weeks after exposure to the weather and otherwise protect the pool prior to installation.

Weldability

Due to the high additivation of the products, the welding parameters may need to be adjusted. For questions regarding weldability, please contact Technical Marketing of Röchling Engineering Plastics s.r.o., Plana nad Luznici/Czech Republic.