

Swimming pool reinforced membrane

TECHNICAL DATA SHEET

Description

AQUASENSE is a watertightness decorative **TEXTURED and PRINTED** surface for swimming pools. It is formed by 2 flexible sheets made of plasticized polyvinyl chloride (PVC-P) join together with an inner polyester fabric. This polyester fabric provides dimensional stability and high resistance to punctures or tears as well as elasticity and flexibility. It is applicable for domestic and commercial swimming pools, for new construction and renovation of any size and any shape.

Advantages

AQUASENSE patented formula has been designed to optimize the welding process. It is odorless and produces extremely low fumes during installation. It is safe in compliance with European standards **REACH** (protection of human health and environment) and **EN 71/3** (protection of children against hazardous chemicals). **We offer a 15-year warranty on watertightness and a 3-year warranty on stains.**

Properties

AQUASENSE is strongly stabilized against UV and has an excellent weathering. It facilitates the maintenance operations and increase the lifespan of the pool surface thanks to its **multilayer surface varnish** protection. The **textured** surface gives the highest anti slip properties in compliance with **DIN 51097 Class C**. It is equipped against the growth of fungi and micro organisms. It is compatible with the proper chemicals used for the water treatment in swimming pools.

Patterns

Black Slate / Granit Green / Granit Blue / Granit Grey / Granit Sand / Granit Gold / Golden Riviera / New White Riviera / Calacatta Marble.

Standard sizes

AQUASENSE is a 1,80mm thick reinforced membrane. It comes in rolls 1,65m x 25m.



KIDS FRIENDLY
EN 71-3 CERTIFICATE



HEALTH & NATURE
REACH CERTIFICATE



WATERTIGHTNESS
WARRANTY



STAIN
WARRANTY



3D
SURFACE



HIGHER CLASS
ANTI SLIP

| GENERAL PROPERTIES | UNIT | METHOD | TYPICAL VALUE |
|---|------------------|---|----------------|
| Surface mass | g/m ² | EN ISO 1849-2 | 1984 +/- 5% |
| Water Absorbtion | % (Weight) | EN ISO 62 Method 1 | ≤ 1 |
| CaCO ₃ Ratio | % (Weight) | EN 15836-2 Annex A | ≤ 3 |
| Available Width | mm | | 1650 |
| PHYSICAL PROPERTIES | UNIT | METHOD | TYPICAL VALUE |
| Thickness Over Emboss | mm | EN 1849-2 | 1,8 +/-5% |
| Elongation at Break | % | EN 12311-2 Method A | 15 ≤ E ≤ 30 |
| Tensile strenght at Break | N/50mm | EN 12311-2 Method A | ≥ 1100 |
| Peel Resistance | N/50mm | EN 12316-2 | ≥ 80 |
| Tear Strenght | N | EN 12310-2 | ≥ 180 |
| Dimentional stability | % | EN 1107-2 | ≤ 0,5 |
| Foldability at low temperature | °C | EN 495-5 | -25 |
| Welding peel resistance | N/50mm | EN 12316-2 | ≥ 80 |
| Slip resistance | ° | EN 15836-2 (DIN 51097) | ≥ 24 (Class C) |
| Slip resistance | ° | EN 16165 Annex A | ≥ 24 (Class C) |
| REINFORCEMENT (100 % PES) | | | |
| Construction (warp, weft) | thr/cm | | 2,8 |
| Weight | g/m ² | | 93 |
| Fabric | Tex | | 110 |
| DURABILITY | UNIT | METHOD | TYPICAL VALUE |
| Artificial ageing (6000h) | Grey scale | EN ISO 4892-2:2006 Method A, cycle 1 EN 20105-A02 | ≥ 3 |
| Microorganism resistance | % (Weight loss) | EN ISO 846:1997 Method D | ≤ 1 |
| Bacterium Resistance (Streptoverciliium reticulum) | | EN ISO 846:1997 Method C Souche : ATCC 25607 | No Staining |
| Chlorine Resistance | Grey Scale | EN 15836-2 Annex C | ≥ 4 |
| Staining Agent Resistance | Degree | EN 15836-2 Annex D | ≥ 4 |
| Printing abrasion resistance | | EN ISO 5470-1 | Pass |
| Temperature resistance | °C | EN 15836-2 | ≤ 35 |

| PROCESSING | |
|----------------------|--|
| Welding Equipment | Follow instructions of the manufacturer to optimize the welding process. |
| Installation process | Follow instructions of our CGT ALKOR Installation Manual. |
| STORAGE & HANDLING | |
| Storage | The rolls must be stored in a horizontal position between + 5 °C and + 35 °C protected against solar radiation, rain, snow, ice and other climatic influences. Product should also be protected on the job site against direct influence of the weather. |
| Handling | Use appropriate and safe handling means to lift the rolls. Do not drag the rolls on the ground. |



**SURFACE
PROTECTION**



**35°C
MAX. WATER
TEMPERATURE**



**HIGHER CLASS
PRODUCTION**



**LOW FUME
EMISSION**

Rev. 07/2024