

# 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 / 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 <sup>2</sup>	EN ISO 1849-2	1984 +/- 5%
Water Absorbtion	% (Weight)	EN ISO 62 Method 1	≤ 1
CaCO <sub>3</sub> 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 <sup>2</sup>		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 (Streptovorticilium 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**



**MAX. WATER  
TEMPERATURE**



**HIGHER CLASS  
PRODUCTION**



**LOW FUME  
EMISSION**