

ENVIRONMENTALLY-FRIENDLY SOLAR PANEL WATERPROOFING SYSTEM

# COLETANCHE® SOLAR

TECHNOLOGICAL INNOVATION FOR ENVIRONMENTAL PROTECTION

USED WITH FLEXIBLE AND SELF-ADHESIVE SOLAR PANELS



**COLETANCHE**

**BITUMINOUS WATERPROOFING GEOMEMBRANE**

**ENVIRONMENT**

HYDRAULICS

UNDERGROUND CONSTRUCTION

TRANSPORT

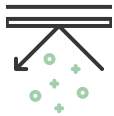
# COLETANCHE® SOLAR

## THE UNIQUE ASSOCIATION OF COLETANCHE GEOMEMBRANES WITH FLEXIBLE SOLAR PANELS

COLETANCHE® SOLAR is a complete system comprising a bituminous geomembrane and flexible high-performance (up to 18.3%) CIGS solar panels. The light weight of the solar panels (2.3 kg/m<sup>2</sup>) paired with COLETANCHE geomembrane efficiency allows for all types of unused and/or degraded areas to be used.

This offers a unique solution to enhance the value of landfill covers or brownfield sites, while clean, local renewable energy is produced. This is beneficial to the environment and for the rehabilitation of spaces.

### MULTI-LEVEL PERFORMANCE



#### RESISTANCE AND WATERTIGHTNESS

Imperviousness to gas (landfill cover) and excellent resistance to biological and chemical agents. Excellent durability in exposed conditions.



#### ADAPTIBILITY

Freedom to choose the placement of the solar panels using self-adhesive strips on the bituminous geomembrane. The system's flexibility allows for better adaptability to movement of the support structure.



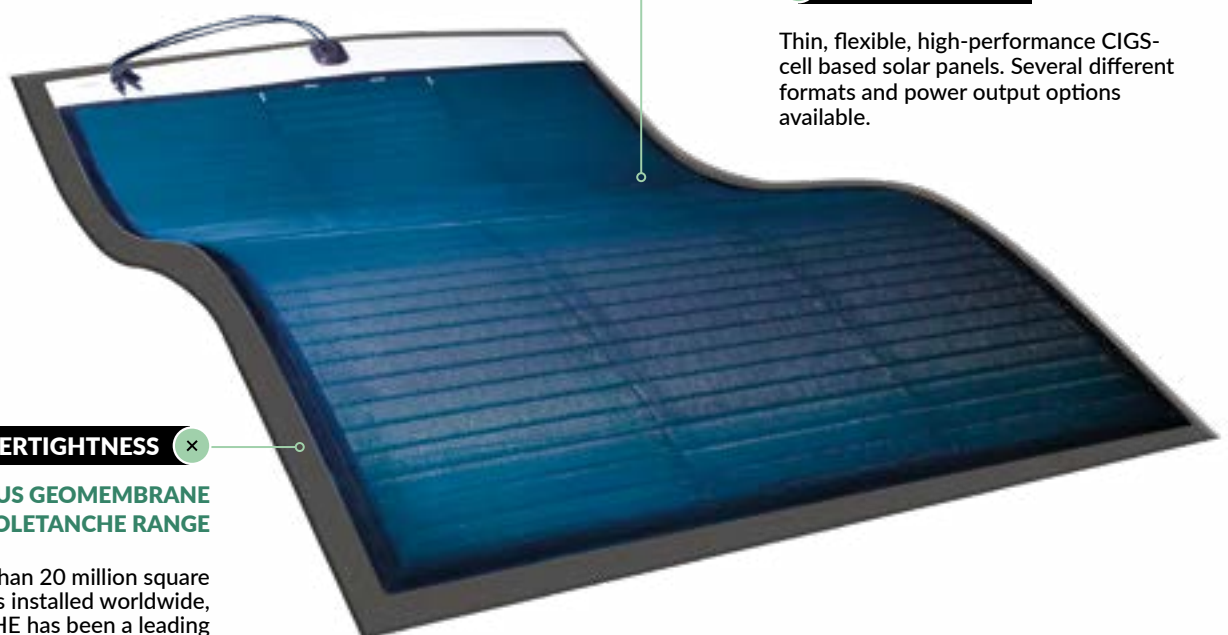
#### POWER OUTPUT

Man-made surfaces produce green energy at a high yield (power from 100 to 520 Wp).



#### EASY UPKEEP AND MAINTENANCE

An efficient replacement procedure for solar panels and an easily repairable bituminous geomembrane by seaming a patch from the same product onto the damaged area.



#### × FLEXIBLE PANEL

Thin, flexible, high-performance CIGS-cell based solar panels. Several different formats and power output options available.

#### × WATERTIGHTNESS

#### BITUMINOUS GEOMEMBRANE FROM THE COLETANCHE RANGE

With more than 20 million square metres installed worldwide, COLETANCHE has been a leading product in the civil engineering field for almost 40 years. Its high performance and adaptability to all types of ground makes it suitable for a variety of different applications in the environmental protection domain.

## APPLICATION:

# EASY TO INSTALL

LAYING OF THE SOLAR PANELS  
WITH SELF-ADHESIVE TAPE, WITHOUT THE NEED  
TO PERFORATE THE BITUMINOUS GEOMEMBRANE



# 1

## PREPARATION

of the COLETANCHE  
geomembrane, to  
support the solar panels.

# 2

## REMOVAL OF THE PEELABLE FILM

protecting the self-adhesive  
strips at the back of the  
solar panels.

# 3

## APPLICATION

of the solar panels and  
masking to the right of  
the self-adhesive strips.

## BENEFITS

- EXCEL® SOLAR panels are applied with self-adhesive tape onto the COLETANCHE geomembrane, without perforation or support structures required.
- Exceptional **durability** of the bituminous geomembrane, **dimensional stability** and flexibility.
- High surface area volume, **high mechanical and chemical resistance**, easy and economical to maintain.
- No geotextiles or protective ground layers required with the COLETANCHE geomembrane.

## DOCUMENTATION & CERTIFICATION

- > INSTALLATION GUIDE, TECHNICAL SPECIFICATIONS AND O.P
- > PROCEDURE FOR THE REPLACEMENT OF SOLAR PANELS
- > TRAINING AND ASSISTANCE IN PREPARING TO INSTALL THE COLETANCHE GEOMEMBRANE

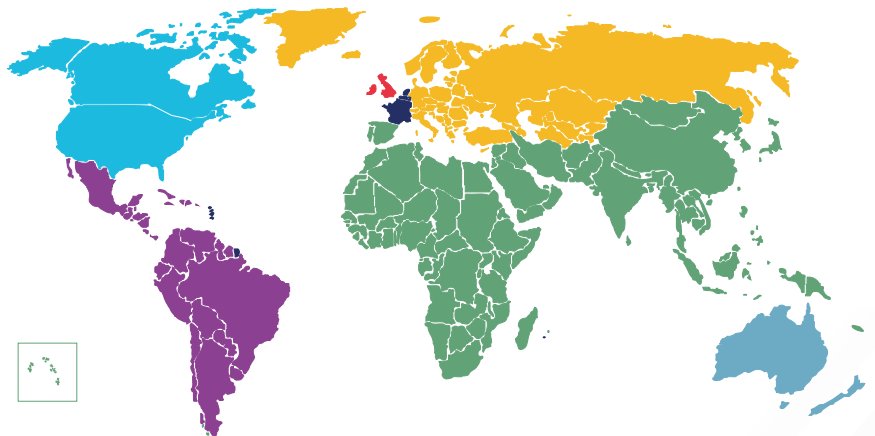


Environmentally-friendly organisation approved by public works bodies for the collection and processing of solar panels at the end of their life.

# COLETANCHE

Axter designs, manufactures and markets bituminous waterproof geomembranes for public works and civil engineering works in various fields: environmental protection, hydraulic structures and transportation.

Axter has an international focus, exporting to more than 70 countries worldwide. Our sales & marketing and technical teams remain available to assist you and, as true partners, they accompany you through each stage of your project.



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