

# EuroCover SP



## EuroCover SP : The Process for Confining and Securing Contaminated Soil and Sites.

### 1- Presenting the EuroCover SP Process

Covering stocks and extracted materials from contaminated sites and soils by means of heavy (or extra weighted) geo-membranes and tarps, represents an important expense in the general framework of de-contamination.

In an ever more tense and competitive business environment, such cost is often taken in account as a 'hidden' cost, although the different actions that the operators undertake, like:

anti-puncture felts

Positioning and re-positioning tarps

Filling and positioning weight bags

Regular maintenance, but especially needed when rain- and thunderstorms are present (pumping water pockets, repositioning weight bags, repositioning blown away tarps)

represent non-neglectable items that will heavily impact the organization and managing of those sites.

Finally, at the end of the job, the covering tarps need to be disposed of and will need to be treated in the same way as the other products on the contamination site and eliminated towards an agreed, certified disposal site.

EuroCover SP offers a solution that is a perfect alternative to the

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PROCÉDÉ EuroCover S.P



DOSSIER  
TECHNIQUE

EURO-TEC

Z.A. Grandalisse

9 Impasse Saint Exupery

69124 COLOMBIER SAUGNIEU - France -

Tél. : + 33 (0)4 37 47 20 20 - Fax : + 33 (0)4 37 47 20 21



traditional and temporary confinement of polluted soils and sites, by avoiding the spread of VOC's (Volatile Organic Components), dust and contamination leakage towards subterranean water.

This innovating process has been designed and optimized by specialists in the field of efficient decontamination management, in order to offer an effective technical and financial tool for site.

Because every jobsite has its own constraints and specifications, a check list (upon request) will help to evaluate all of them inherent to the site: in addition to this, a pre-study based on samples taken from the site will be done, in order to supply the product that is best adapted to the type of contamination and soil constraints present on-site.

**EuroCover SP offers the following advantages:**

Ease of application, regardless of soil micro-relief or slope steepness

Absolutely no need for maintenance, specifically related to windy areas or due to severe climate conditions

Does not cause any extra waste

No leaching of rainwater collected by the membrane over the whole of the contaminated area (water absorption and evaporation capacity around 600% of dry weight)

An economically and technically viable alternative over traditionally constraining solutions

Average protection duration between 60 to 180 days. Can be prolonged by simply adding a new layer of EuroCover SP

Visually positive impact in comparison to traditional tarping.

**EuroCover SP is applied by using a special machine (EUROSEEDER)**, which consists of a tank, an agitator with paddles, and a centrifugal pump. The application is done or from a slope side, or from the operator platform by canon, or from ground level through a hose.

# EuroCover SP

Photo 1: traditional tarping/covering



EuroCover SP is applied hydraulically on to the contaminated soil; first a 'sealing' or 'capping' layer (white) followed by a second stabilizing layer (green)

Photos 2 et 3:



After drying the 2 layers form a stable and integrated compound that cannot be separated.



## Dossier technique

### EuroCover SP

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# Operating Mode for EuroCover SP - Organization

## Preliminary Analysis and Tests



1

In order to adapt and offer the best possible solution which covers closely the specific needs of each jobsite in the best way, we ensure a preliminary study of the specific composition of the temporary sealing EuroCover SP, based on delivery of representative sample materials (between 1 to 5 takings).

## Delivery of the jobsite



2

The earthmoving company active on the site, needs to prepare the site. It should preferably be flattened and compressed when possible. If not, at least levelled with the top layer sufficiently fine in order to prevent presence of stones, pebbles, bricks and/or concrete blocks.

## Filling the Tank of the EuroSeeder



3

The amount of water needed to prepare EuroCover SP, is approximately 4300 litre per tank load. This rather important amount of water needs to be entered into the tank rather quickly, hence the need for a fire-hydrant or in the absence of such, the job-site management will ensure sufficient water supply by e.g. water cistern equipped with a high flow rate pump.

## Preparing the EuroCover SP hydraulic slurry

With the tank filled, the various components of the temporary sealing part of EuroCover SP are introduced in the tank, which is equipped with an agitator with paddles, capable of turning in 2 directions.

The mixing power of the machine provides a homogeneous, slick blend of the sealing matrix.

## Preparation of the 1<sup>st</sup> layer (white colour)

The products' 4 components are mixed in a specific order and following a strict procedure assuring in that way the quality of EuroCover SP.

## Preparation of the 2<sup>nd</sup> layer (green colour)

Important: during periods of frost, it is not possible to apply the temporary sealing cover EuroCover SP.



## Application Steps for EuroCover SP

### Important notice :

The following services remain under the sites management responsibility :

- Formalities for access to the site
- Availability of 2 persons for the handling and the application, including their personal protection equipment and respiratory equipment
- Availability of a room or closed and heated container (during periods of frost), for storage of the EuroCover components
- Availability of an area for rinsing and cleaning of the equipment
- On-site availability of water (fire hydrant )

Applying the EuroCover SP Temporary Sealing Membrane (white colour)



4

The EuroSeeder is conveniently placed there where – by using the hose– the whole area that is to be treated can be reached easily – before being treated.

The operator ensures the machine operation and handling (start & stop, mixing of the slurry, pump operation, recirculation of material back into the tank).

A trained operator ensures the application of the EuroCover slurry by canon or by hose, taking care to cover the rim of the previously sprayed strip again, in order to ensure ultimate coverage.

After the first targeted covering, the operator will ensure a general cover by spraying the area with a 'rainfall' pattern.

Applying the EuroCover SP Fibrous Natural Membrane



5

The EuroSeeder is conveniently placed there where – by using the canon or boom– the whole area that is to be treated with the fibre matrix can be reached easily.

The application with the boom allows for the earlier sprayed-on cover #1 in process of polymerization, not to be walked upon or being driven upon.

In case where the access with the boom is difficult or impossible, the operator will apply the 2<sup>nd</sup> EuroCover layer, with the boom, working from the outside perimeter and working his way 360° around the site.

Manpower required



6

The job-site manager is responsible for start-up and follow-up of the site.

He'll be in charge of the technical management and security of the site as well as timely ordering of materials and products. 2 Operators will ensure the EuroSeeders operation, preparation of EuroCover SP and the final application of it on-site.

2 people of the Decontamination (or on-site treatment) Company will be in charge of the logistic support, the handling of the hoses (whenever needed) and other handling tasks.



## Time needed for the EuroCover SP layers to be applied.

The time needed to apply the 2 layers of the temporary sealing EuroCover SP, is approximately 2 hours per tankload, excluding the time needed to clean and rinse the material and equipment which is done at the end of the working day.