

Decontamination spill berm for rescue and emergency units



INSTRUCTIONS FOR USE

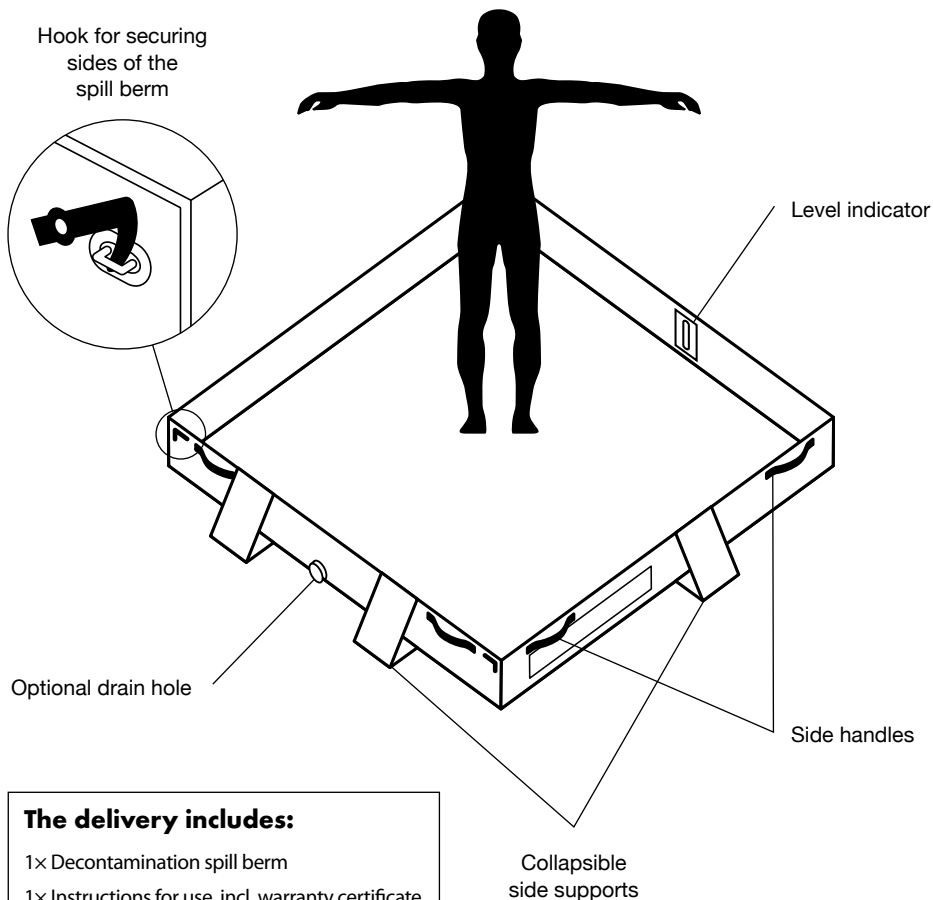
US



This document describes the operation and characteristics of the Decontamination spill berm for rescue and emergency units (hereinafter „berm“). It contains important information about how to use the berm properly and how to increase its reliability and life. This document must always be available in the place where the berm is used. Keep it together with the berm at all times. The operator is responsible for using the berm safely and in compliance with the instructions in this manual, which applies to any third persons as well. If you have any doubts about the correct use of the berm, please contact the manufacturer or an authorized dealer.

Decontamination spill berm is specially designed to meet the requirements of emergency and rescue units for decontamination of individuals or equipment, as well as for catchment of hazardous materials in case of spills or other environmental disasters. The flexible structure of the berm enables use in any terrain including hard-to-reach places. The dimensions of the berm are optimised for decontamination of a standard individual with the outstretched arms.

Decontamination spill berm for rescue and emergency units



Technical details

| Name | Dimensions (in) | Capacity (gal) | Pack size (in) | Weight (lb) |
|---|-------------------|----------------|-------------------|-------------|
| Decontamination spill berm ET IZS | 78.7 × 78.7 × 7.9 | 171.7 | 35.4 × 21.7 × 7.9 | 29.8 |
| Accessories | | | | |
| Bag (standard part of the product) | 36 × 22.2 | – | – | 1.1 |
| Protective pad | 86.6 × 86.6 | – | 23.6 × 16.5 × 2 | 7.2 |
| Protective insert | 78.4 × 78.4 × 7.9 | 171.7 | 22 × 11.8 × 4.7 | 10.1 |

General information



When using the berms, observe these instructions as well as all the safety notices herein.

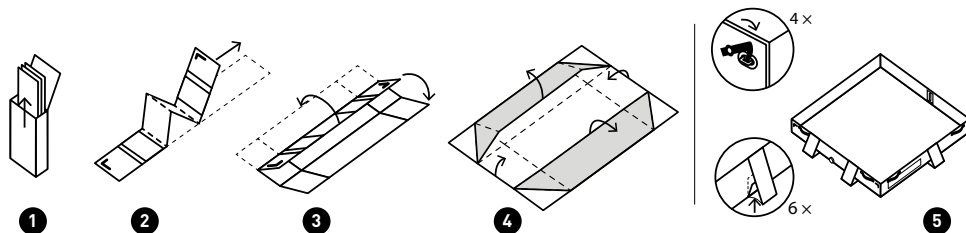
1. The berm is designed as a quick solution for emergency situations. It is used for effective decontamination of people or objects and for the capture of hazardous substances escaping into the environment.
2. The berm is manufactured in the size of 78.7 × 78.7 × 7.9 in, which is the optimal size for decontamination of a person with outstretched arms.
3. Their structure can be shaped and adapted to uneven surface and other obstacles.
4. The berm is self-supporting. The collapsible side supports ensure greater stability of the berm.
5. They are made of a chemically resistant material – PVC with a protective proofing layer (PES/PVC 1.5 Lb/10.7 ft²) – see Chemical resistance certificate, p. 7.
6. The berms are not intended for long-term storage of aggressive substances.
7. The range of temperatures for the use of the berms is from -22 °F to +158 °F.
8. Maximum carrying capacity is 441 lb.
9. The side handles are used for manipulation with the berm.
10. As a standard, the berm is delivered in transport bag.
11. In order to increase the life and resistance of the berms we recommend using the following optional accessories: protective pads and protective inserts, see p. 5.
12. The berm can be fitted with optional drain hole and a ball valve on request.

Instructions for putting the berm into the ready-to-use position



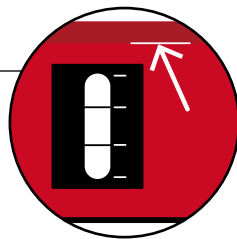
Take the berm out of the transport bag. Place it on a cleared flat surface, preferably onto the protective pad, and unfold the berm. By lifting the sides, securing the corners with the yellow hooks and securing the collapsible side supports, the berm is simply created.

Illustrated instructions for assembly of Decontamination spill berm



Handling instructions and safety warnings

1. Put the berm onto a flat surface, if possible.
2. Make sure there are no sharp objects under the berm, such as pieces of broken glass, nails, sharp stones, etc., which might mechanically damage its bottom.
3. Do not put the product near fire or any other sources of heat.
4. The range of temperatures for the use of the berms is from -22 °F to +158 °F.
5. The berms are resistant to a large number of different liquids and loose materials (see the Chemical resistance certificate, p. 7). For unknown substances we recommend using the protective insert, which enhances the berm's resistance. The protective insert is an optional accessory.
6. The berms are not intended for long-term storage of aggressive substances.
7. Fill the berm up only to the upper weld joint of the reinforcement.
8. Do not move or pull an empty or a filled berm on the ground – the manufacturer's warranty does not cover mechanical damage.
9. Use the handling belts (which are also suitable for being hung on the fork of a fork lift truck) to move a filled berm.
10. Make sure not to exceed the maximum carrying capacity of 441 lb.
11. After each use it is necessary to wash the berm thoroughly, clean it with suitable detergents and let it dry completely.
12. Observe the safety measures for working with hazardous liquids and with substances harmful to the environment.
13. Make sure you observe any necessary precautions regarding personal safety, such as the use of protective equipment.



Recommended accessories

The following optional accessories for Decontamination spill berm are provided for a surcharge.

| Name | Dimensions (in) | Capacity (gal) | Pack size (in) | Weight (lb) |
|--------------------------|-------------------|----------------|-----------------|-------------|
| Protective pad | 86.6 × 86.6 | – | 23.6 × 16.5 × 2 | 7.2 |
| Protective insert | 78.4 × 78.4 × 7.9 | 171.7 | 22 × 11.8 × 4.7 | 10.1 |

Secure the protective insert in the ready berm using the metal clips. Using the berm with the protective insert increases chemical resistance, makes disposal of collected substance easier and protects the berm, which, as a result, does not need to be cleaned. The collected liquid must be disposed of in compliance with applicable regulations. The protective insert can be cleaned in the same way as the berm and then reused.

The protective pad and the protective insert significantly extend the berm's life and resistance.

Maintenance and storage

After the draining and prescribed environment-friendly disposal of the collected substance, the product must be washed with proper neutralization detergent (in the case of aggressive substances) and lukewarm water or another suitable detergent. We recommend storing the pools folded in the carrying bag so that they are not damaged while not in use. The pool must be dried thoroughly before it is put into the bag. For long-term storage, place the pool in a dry place out of the reach of UV radiation.

Important contact information

Qualified service:

ECCOTARP USA, inc.
357 West 36th Street
New York, NY 10018
USA

office@eccotarp.com

T: 1 212-725-9845

Repair

Any repair work on the collapsible berms must always be done by the manufacturer's qualified personnel. In the event of unprofessional repair or design change, the product's proper operation cannot be guaranteed. If you want to request repair, order accessories or lodge a complaint, please, contact your qualified supplier

Warranty conditions

The warranty period is indicated in the warranty certificate on the last page of these Instructions for use. The warranty period is 24 months and begins on the day indicated in the warranty certificate. The warranty does not apply to the normal wear and tear or to damage caused by improper use or by the instructions in this manual not being observed.

Warning – the warranty does not cover damage from long-term exposure to chemicals. This can also occur after the product is improperly cleaned after intervention. Even a small amount of aggressive chemicals will cause degradation of the material from which it is made during long-term exposure. This can be manifested by microscopic cracks on the surface, or by a change in the properties of the material, which can lead to easy damage and tearing.

Disposal

The product must be disposed of in compliance with applicable legal regulations and with the user's internal directives.

Chemical resistance certificate

Applicable to all types of Collapsible spill berms, Funnels and Protective liners.

Resistance levels:

- A) resistant
- B) resistant for at least 3 hours
- C) non-resistant

| Name of substance | Chemical formula | Resistance level at the temperature of 68 °F | Resistance level at the temperature of 140 °F |
|--------------------------|---|--|---|
| LIQUID SUBSTANCES | | | |
| Acetone | CH ₃ COCH ₃ | C | C |
| Acetonitrile | CH ₃ CN | A | A |
| Ammonia | NH ₃ | A | A |
| Benzene | C ₆ H ₆ | B | B |
| Tar | mixture | C | C |
| Dimethyl-formamide | C ₄ H ₉ NO | A | A |
| Ethanol | C ₂ H ₅ OH | A | A |
| Ethylbenzene | C ₈ H ₁₀ | A | A |
| Formaldehyde | CH ₂ O | B | B |
| Chlorine | Cl | C | C |
| Chloroform | CHCl ₃ | C | C |
| Transformer oil | | A | A |
| Hydrochloric acid | HCl | A | A |
| Nitric acid | HNO ₃ | A | B |
| Phosphoric acid | H ₃ PO ₄ | A | B |
| Formic acid | HCOOH | B | B |
| Acetic acid | CH ₃ COOH | A | B |
| Sulphuric acid | H ₂ SO ₄ | A | B |
| Sulphurous acid | H ₂ SO ₃ | A | B |
| Methanol | CH ₃ OH | A | A |
| Mercury | Hg | A | A |
| Hydrogen sulphide | H ₂ S | A | B |
| Styrene | C ₈ H ₈ | A | A |
| Pentane | C ₅ H ₁₂ | A | A |
| Toluene | C ₆ H ₅ CH ₃ | A | A |
| Hydrogen peroxide | H ₂ O ₂ | A | A |

| Name of substance | Chemical formula | Resistance level at the temperature of 68 °F | Resistance level at the temperature of 140 °F |
|--------------------------------|--|--|---|
| SOLID SUBSTANCES | | | |
| Ammonium acetate | CH ₃ COONH ₄ | A | A |
| Borax | Na ₂ [B ₃ O ₆ (OH) ₃]-8H ₂ O | A | A |
| Sugar | mixture | A | A |
| Potassium cyanide | KCN | A | A |
| Ammonium nitrate | NH ₄ NO ₃ | A | A |
| Calcium nitrate | Ca(NO ₃) ₂ | A | A |
| Phenol | C ₆ H ₅ OH | B | B |
| Ammonium phosphate | (NH ₄) ₃ PO ₄ | A | A |
| Potassium nitrate | KNO ₃ | A | A |
| Potassium | KOH | A | A |
| Sodium hydroxide | NaOH | A | A |
| Ammonium chloride | NH ₄ Cl | A | A |
| OPERATING FLUIDS | | | |
| Gas | | B | B |
| Diesel fuel | | B | B |
| Motor oil | | B | B |
| Methyl tert-butyl ether (MTBE) | C ₈ H ₁₈ O | B | B |
| Hydraulic oils | | B | B |

Notice:

Ecotarp collapsible spill berms are compatible to varying degrees with the substances listed above.

However, given the almost unlimited number of potential combinations of chemicals plus the influence of factors such as concentration and temperature, this list does not claim to be definitive and is only intended for informative purposes in predicting the behaviour of the chemicals concerned.

Compatibility with the listed substances cannot be entirely guaranteed. Neither the manufacturer nor the distributor provides any warranty, nor do they accept any responsibility for resultant damage.

For a reliable estimate of the level of resistance to a specific substance, we recommend you to test small samples using miniature laboratory funnels which can be provided upon request by the manufacturer. Given that it is not always possible to identify and assess the nature of corrosive substances, the manufacturer recommends using the Ecotarp protective liner.



The Ecotarp collapsible spill berms are not intended for long-term storage of retrieved spilt liquids. They were developed first and foremost for rapid use in emergencies, for capturing hazardous substances during the time immediately before its correct disposal.

Warranty Certificate



This product is guaranteed for 24 months.

This warranty covers:

for defects caused by a manufacturing defect of the material used, in particular a leak at the welds, a defect in the fittings and any other damage, not caused by demonstrable mishandling by the user or any modification of the product.

This warranty does not cover:

damages caused by improper handling and use of the product and failure to follow the "user manual". For example, punctures or other damage caused by placing the product in an inappropriate area with sharp objects, higher load handling weight than stated in the "user manual", use or placing the product near open flames, and other inappropriate uses.

Warning – the warranty does not cover damage from long-term exposure to chemicals. This can also occur after the product is improperly cleaned after intervention. Even a small amount of aggressive chemicals will cause degradation of the material from which it is made during long-term exposure. This can be manifested by microscopic cracks on the surface, or by a change in the properties of the material, which can lead to easy damage and tearing.

The manufacturer is not liable for direct or indirect damage caused by other than the recommended use of the product.

Complaints must be applied within 24 months of purchase from your supplier. When applying please provide your complaint with full details – product serial number, proof of purchase, where appropriate photographic documentation and a detailed description of the circumstances in which a fault has occurred.

.....
Product Name:

.....
Production Code:

.....
Stamp and Signature:

.....
Date of sale:

.....
In case of problems, please contact:

.....
Failure description:

