Prior to loading…

Protect your holds and cargo coating against aggressive and corrosive cargoes

Hold Barrier

The Problem: After discharge of cargoes such as petcoke, coal, pencil pitch, coke, ores, minerals, cement, small cargo particles have adhered and penetrated the minute pores in the paintwork and are firmly attached. Therefore, the cleaning procedure for a new and sensitive cargo is usually costly and labour intensive, before cargo holds are acceptably cleaned. Even worse, sulphur, salt etc., will corrode the hold surfaces.

The Solution: Use HOLD BARRIER for best protection of the cargo hold bulkheads. It can be easily applied by ship’s crew prior to loading. HOLD BARRIER effectively prevents residue adhesion, stains and footprints of cargoes adhering to the surfaces of cargo holds and/or causing corrosion and are difficult to clean. HOLD BARRIER has been found to be harmless to cargoes, coatings and the environment.

For extra demanding cargoes, like sulphur, salt etc., an extra resistant formulation of the product is recommended, HOLD BARRIER XR (EXTRA RESISTANCE). For easy shipping and handling, HOLD BARRIER CONCENTRATE is also available.

Benefits:

‣ Protects metal against corrosive cargo and paint against cargo penetration.
‣ Prevents the deterioration of cargo hold condition.
‣ Not harmful to cargoes, coatings and the environment
‣ More effective than limewash and much easier to remove.
‣ Reduces labour and turnaround time; saves on cleaning chemicals.

PRODUCT CODES:
HOLD BARRIER (110501), HOLD BARRIER XR (110502), HOLD BARRIER CONCENTRATE (110503)

Applying chemicals and barriers…

Always use CHEMO products for best application of chemical cleaners and HOLD BARRIER

Cargo Hold Application Set

Usage: Ideal for applying all kinds of protective coatings, as well as for the application of chemical solutions for cleaning cargo hold tanks. It is also ideal for post-process applications, i.e. the cargo hold rinsing with fresh or sea water.

Available with double diaphragm pumps of ½ or 1 inch to choose from. Comes with Telescopic Applicator Lances of 36ft, 42ft or 57ft, depending on your needs.

CHEMOjet

Waterjetting units with sandblasting adaptable system, electric driven

PRODUCT RANGE:
CHEMOJET 250 • Max working pressure 50-250 bar, adjustable Max flow 16.3 lt/min, 440V/60Hz, Engine power 7.5 Kw/10 hp (160113)
CHEMOJET 500 • Max working pressure 50-500 bar, adjustable Max flow 17.5 lt/min, 440V/60Hz, Engine power 15 Kw/20 hp (160115)
CHEMOJET 1100 ATEX • Max working pressure 50-1100 bar, adjustable Max flow 15.5 lt/min, 440V/60Hz, Engine power 30 Kw/40 hp (160112)

Standard Accessories & Equipment • All CHEMOjets are equipped with Spray Gun, HP Hose Extension, Adapted Electric Cable Extension, Flat Nozzle, Jet Water Filter

Custom solutions up to 2500 bar operating pressure
After discharging...

Hold Cleaning Solutions

Solutions for chemical cleaning of all types of cargoes. Cost effective, non-flammable, water based, heavy duty cleaners containing special surfactants, detergents and builders, for effectively removing all types of cargo stains and residues, after cargo discharge, while minimizing coating discoulouration.

<table>
<thead>
<tr>
<th>CARGO</th>
<th>PRODUCT NAME</th>
<th>CLEANING PROCEDURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal</td>
<td>HOLDBRITE XF</td>
<td>Remove all residues from the cargo hold using sweeping and be sure holds are dry.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply the product. Use suitable spraying equipment and dosages varying from 5 to 20% in fresh water, depending on the contamination.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allow solution to penetrate soil for 10-60 minutes and then wash off thoroughly with high pressure water, preferably hot. Always wash off before chemicals dry on the surface.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Products may be used undiluted for hand cleaning.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* If needed, HoldBrite XF can be replaced with HoldBrite (product code 110201) with the addition of Foam Booster (product code 110302).</td>
</tr>
<tr>
<td>Pet coke</td>
<td>PET COKE REMOVER</td>
<td>Remove all residues from the cargo hold using sweeping and be sure holds are dry.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply the product. Use suitable spraying equipment and dosages varying from 5 to 20% in fresh water, depending on the contamination.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allow solution to penetrate soil for 10-60 minutes and then wash off thoroughly with high pressure water, preferably hot. Always wash off before chemicals dry on the surface.</td>
</tr>
<tr>
<td>Sulphur</td>
<td>HOLDBRITE XF</td>
<td>Remove all residues from the cargo hold using sweeping and be sure holds are dry.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply the product. Use suitable spraying equipment and dosages varying from 5 to 20% in fresh water, depending on the contamination.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allow solution to penetrate soil for 10-60 minutes and then wash off thoroughly with high pressure water, preferably hot. Always wash off before chemicals dry on the surface.</td>
</tr>
<tr>
<td>Concentrates / Specific ore residues</td>
<td>HOLDBRITE XF</td>
<td>Remove all residues from the cargo hold using sweeping and be sure holds are dry.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply the product. Use suitable spraying equipment and dosages varying from 5 to 20% in fresh water, depending on the contamination.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allow solution to penetrate soil for 10-60 minutes and then wash off thoroughly with high pressure water, preferably hot. Always wash off before chemicals dry on the surface.</td>
</tr>
<tr>
<td>Miscellaneous feedstock</td>
<td>HOLDBRITE XF</td>
<td>Remove all residues from the cargo hold using sweeping and be sure holds are dry.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply the product. Use suitable spraying equipment and dosages varying from 5 to 20% in fresh water, depending on the contamination.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allow solution to penetrate soil for 10-60 minutes and then wash off thoroughly with high pressure water, preferably hot. Always wash off before chemicals dry on the surface.</td>
</tr>
<tr>
<td>Cement / Cement clinkers</td>
<td>CEMENT REMOVER SUPER</td>
<td>Remove all residues from the cargo hold using sweeping and be sure holds are dry.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply the product. Use suitable spraying equipment and dosages varying from 10 to 50% in fresh water, depending on the contamination.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allow solution to penetrate soil for 10-30 minutes and then wash off thoroughly with high pressure water, preferably cold. Always wash off before chemicals dry on the surface.</td>
</tr>
<tr>
<td>Bauxite / Iron ore / Iron ore pellets</td>
<td>BAUXITE REMOVER</td>
<td>Remove all residues from the cargo hold using sweeping and be sure holds are dry.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply the product. Use suitable spraying equipment and dosages varying from 5 to 20% in fresh water, depending on the contamination.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allow solution to penetrate soil for 10-60 minutes and then wash off thoroughly with high pressure water, preferably hot. Always wash off before chemicals dry on the surface.</td>
</tr>
<tr>
<td>Limestone / Rust stains</td>
<td>LIME OUT</td>
<td>Remove all residues from the cargo hold using sweeping and be sure holds are dry.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply the product. Use suitable spraying equipment and dosages varying from 5 to 20% in fresh water, depending on the contamination.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allow solution to penetrate soil for 10-60 minutes and then wash off thoroughly with high pressure water, preferably hot. Always wash off before chemicals dry on the surface.</td>
</tr>
</tbody>
</table>

Reduce your turnaround time, using CHEMO products!
Your Cargo Hold Care

The correct tank cleaning decision can be crucial for revenue maximization, especially when cargo change-over is often. Using CHEMO products can minimize costly delays, while obtaining high quality cleaning results. The use of HOLD BARRIER / HOLD BARRIER XR / HOLD BARRIER CONCENTRATE prior to loading can prove even more cost and time saving.

Always use CHEMO application/cleaning systems for best application of chemical cleaners and HOLD BARRIER.

---

**HOLDBRITE XF** heavy duty alkaline cleaner with extra foaming effect

- Effective cleaning of heavy duty residues from cargo holds, decks, bulkheads, etc.
- Specially formulated to clean vertical surfaces on bulk carriers and OBOs. Use with spray foam equipment.
- Ideal for cleaning after most dry cargoes, up to “water white standard”.
- Heavy duty, water-based cleaner.

**USE:** For cleaning after coal, pet coke, oily residues, sulphur, concentrates, specific ore residues, and other difficult cargoes, as well as lighter grease, oil, miscellaneous feedstock and dirt deposits.

**PRODUCT CODE:** 110301

---

**PET COKE REMOVER** effective liquid product for pet coke removal

- Heavy duty water based cleaner.
- Effectively removes pet coke and mineral deposits from cargo holds & tanks
- Quick and intrinsic action.
- Also used to eliminate bad odors in tanks and other closed systems.
- Cost effective, easy to apply and use.
- Safe to use on all metals & alloys and/or rubber/plastic.
- Non-flammable, non-toxic. Free from hydrocarbon solvents.

**USE:** For cleaning pet coke.

**PRODUCT CODE:** 110303

---

**CHEMO BAUXITE REMOVER** liquid acid for the effective removal of bauxite & ore residues

- Highly efficient removal of bauxite residues / stains.
- Removes iron ore & special ore residues / stains.
- Contains special corrosion inhibitors, wetting agents and surface tension reducing agents.
- Safe to use on all metal surfaces and parts except aluminium, zinc, tin and its alloys.
- No special surface preparation.
- Water-soluble and non-flammable.
- Cost effective and easy to apply.
- Safe to use on rubber and plastic compounds.

**USE:** For cleaning bauxite / iron ore / special ore residues and stains.

**PRODUCT CODE:** 110306

---

**CEMENT REMOVER SUPER** powerful cement cleaner

- Heavy duty acid-based product.
- Effectively removes cement cargo deposits, dry cement stains and lime.
- Helps with removing possible existing rust.
- Water-soluble, non-flammable; Free from hydrocarbon or chlorinated solvents.
- Contains powerful inhibitors for surface protection.
- Quick and intrinsic action.
- Cost effective, easy to apply and use.
- Safe to use on rubber/plastic.

**USE:** For cleaning cement / cement clinkers cargo deposits and dry cement stains.

**PRODUCT CODE:** 110305

---

**LIME OUT** effective removal of limestone

- Extremely effective cleaner against limestone and any lime deposit and stain from large metal surfaces and cargo tanks.
- Helps with removing possible existing salt / rust deposits.
- Contains powerful acids, surfactants and corrosion inhibitors.
- IMO-approved, minimizing environmental concerns.
- Quick and thorough action.
- Safe to use on rubber/plastic.
- Water-soluble, non-flammable.
- Cost effective, easy to apply and use.
- Free from hydrocarbon or chlorinated solvents.

**USE:** For cleaning limestone, rust stains and deposits.

**PRODUCT CODE:** 110304

---

**CHEMO Marine Chemicals**

CHEMO Hellas S.A.
20, Voriou Ellados Str., GR 124 62, Skaramagas, Athens, Greece
T +30 210 5572022 • F +30 210 5576230 • E info@chemomarine.com

[Website Address: www.chemomarine.com]