



## CASE STUDY – International Diamond Manufacturing Company

### Storage Requirements

Chemstore were asked to provide a solution for the onsite storage of 2 IBC's containing highly corrosive sulphuric acid. The IBC's need to be pumped from the store into the production area. It also required a ladder & walkway for access to the top of the IBC's.

The pictures below clearly show that there is a large amount of corrosion to the bottom of the store this was due to the pump being transferred from one IBC to the other and left dangling to the front of the store. The internal area had to be completely plastic lined to avoid any corrosion damage. The bunding at the base need to be corrosion resistant and have a capacity of 110% of the largest container being stored.



### Our Proposal

The Chemstore proposal included storage of 2 IBC's stored plastic shelf level. The product is to be stored on 1 level and a center aisle to provide access to the top of the IBC's. Access is to be twin hinged fully sealed doors.

The entire unit offers a corrosion resistance to the chemical being stored.



External View



Internal View



Shelf Area



Access



## Technical Spec

- **Plastisol Coated Cladding – corrosion resistant**
- **Enviroclad Internally**
- **Corrosive Resistant Poly Sumps 110% of largest vessel being stored.**
- **Plastic Cladding on steel handrail & ladder access**
- **Safety Signage in accordance with BS EN 14470-1**

**Overall dimensions:** 3,600mm (L) x 1,600mm (D) x 3,300mm (H)

**Storage:** 2 no. IBC's of sulphuric acid

**Construction:** Robust all welded 100x50mm steel box section frame.

**Sumps:** Chemical resistant polyethylene sump trays fitted under floor level. Capacity 1,100ltr each

**Access:** Twin, heavy-duty hinged access doors. **Doors are fully padlockable.**

**Ventilation:** Louvred cladding panels ensure airflow throughout the store.

**Wall/Roof/Door Cladding:** The profiled, single skin cladding is fabricated from a Zintec based, corrosion resistant alloy which is then Plastisol coated internally. Choice of colours. Standard colour: Goosewing Grey.

**Finish:** All steel coated with high build Acrylic paint finish system to ISO 3233:1998. Choice of colours. Standard: **Blue RAL 5017**

**Lifting:** Unit is fitted with forklift channels to allow for easy unloading and relocation if required.

**Signage:** Relevant safety signs fitted to BS499 on all units.