

MAINTENANCE PRODUCTS FOR AHUs / FCUs / AIR COOLED CONDENSER



Eximious is proud of announcing the state of at maintenance products for effective & easy maintenance of AHU like Airside fin cleaning compound called as Magic Blue SPG and Fins protecting compound called as Finshield.

Using these products, AHU always remains clean & fins remain intact resulting in substantial service life & up time.

CLEANING OF AHU FINS AIR SIDE: MAGIC BLUE SPG

- Magic blue SPG is a carefully formulated, non-caustic, AHU fins cleaning concentrate.
- No harsh chemicals – acids or Caustic is used in Magic Blue SPG.
- It is designed to clean Dirt-dust-oily deposit-soil-rust particles etc. from the fins and clear the air passage.



FINS PROTECTING COMPOUND: FINSHIELD

- Finshield is organic, polymeric fins protecting, water-based compound.
- It is to be mixed with water & sprayed on to the fins.
- It forms a complete, continuous, monolithic film over the fin's surface, protecting it against atmospheric corrosion, gaseous corrosion.



SIDE U BEND TUBE SHEET PROTECTION: Co-Ban-Co 1006

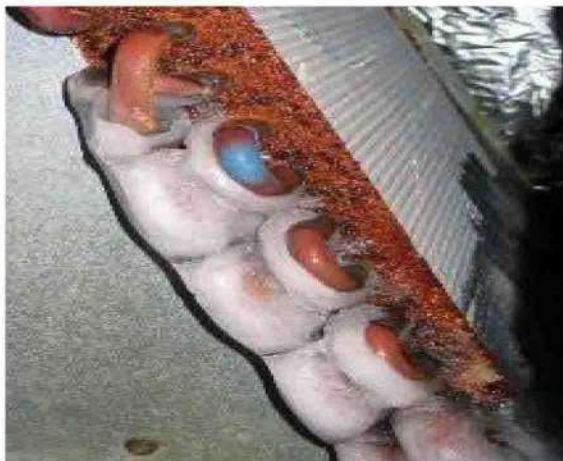
- Corrosion of side U-bend tube sheet of AHUs / Air cooled condensers is a regular phenomenon in the industry which leads to leakages of refrigerant and ultimately a premature change of the entire condenser.
- We solve this problem using our protective coating, **Co-Ban-Co 1006**, to protect the U-bend tube sheet from corrosion and save money.







BENEFITS

- Keeps the AHU surface clean ensuring good heat transfer.
- Keeps the fins in good condition & increases its service life.
- Keeps AHU in overall good condition.
- Saves time and cost of labour.
- Ensuring quality uptime.

Visibly clear results....



You can contact us at -    

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CLEANING OF AHUs



TARGET -

- Increasing the reliability of AHUs & FCUs and increase the life expectancy of the AHU coils.
- Maintain the cost of energy by keeping the air passage clean.
- Keep the users in absolute comfortable atmosphere.

PROCEDURE –

1. Clean the air passage using Magic Blue – SPG which is designed to penetrate the depositions between the two fins and facilitate easier removal of the same. Dilute Magic Blue – SPG at 10% with normal water.
2. To clean AHU air passage, mix Magic Blue – SPG with water and spray amply on the fins. Then wash off with plain water. Magic Blue – SPG penetrates the depositions and facilitates easy removal of the same.
3. While cleaning, protect the delicate fins by keeping the pressure low.
4. Once the fins are clear, add Finshield (dilute 10%) in water & spray on the fins. The film formed by this spray imparts protection against the corrosion.



FEATURES AND ADVANTAGES –

1. Magic Blue – SPG is caustic free, hence require very less water to clean.
2. Caustic as a cleaning medium is very corrosive which reduces the life of the coil & fins. Magic Blue – SPG is caustic free.
3. Magic Blue – SPG is very low foam compound requires very less water to clean, penetrates fast in the deposition, loosening the deposits from the surface.
4. Finshield is an organic coating concentrate to be diluted with plain water & spray, which increases the service life of the coils.

BENEFITS –

1. Using Magic Blue – SPG, efficiency of cleaning can be higher, safe as non corrosive and very simple to use. This cleans the air passage and saves blower energy cost.
2. Keeps the user comfortable.
3. Increases the service life with Finshield which reduce the cost of expensive replacement.
4. Reduces unwanted shutdowns or breakdown, increases the quality uptime.

BEFORE



AFTER



AHU Cleaning

Name of the customer : Hiranandani (Powai)

Nature of job : Descaling of AHU

Metallurgy : Copper

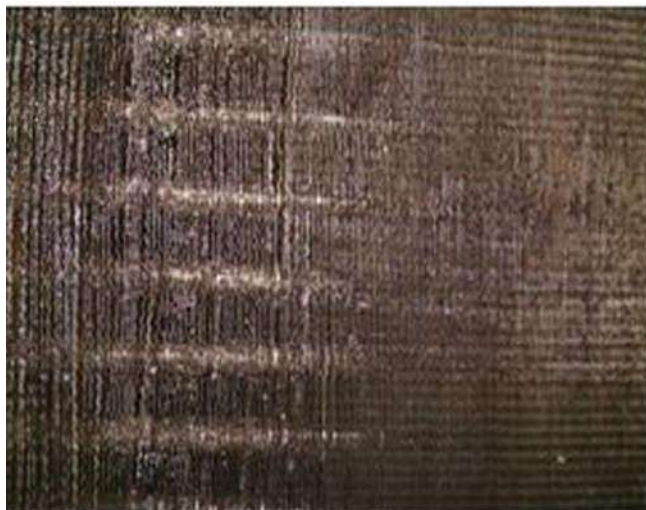
Details of problem : AHU was not performing due to choking of internal tubes resulting in low flow and velocity.
Externally the fins were choked reducing the air flow through the same. Fins were corroded.

Product used : To Descale AHU internally - D'Scale 1000 & D'Scale 3000.
To Clean AHU Air side - Magic blue – SPG
To Protect AHU Fins - Finshield

Results : Rated flow rate of the said AHU was 109 GPM.

Before chemical cleaning	After chemical cleaning
Actuator by pass	Actuator by pass
100% Valve close	100% Valve open
Flow = 30 GPM	Flow = 102.24 GPM
Velocity = 0.86 m/s	Velocity = 1.26 m/s
	Actuator by pass
	100% Valve close
	Flow = 110.07 GPM
	Velocity = 1.37 m/s

Observations : After the AHU is cleaned internally and externally, the flow rate has gone up substantially.
The velocity has improved from 0.86 m/s to 1.26 m/s, and flow increased to 110 GPM from 30 GPM.
Now customer is talking about all the heat exchangers in all his premises.



Before



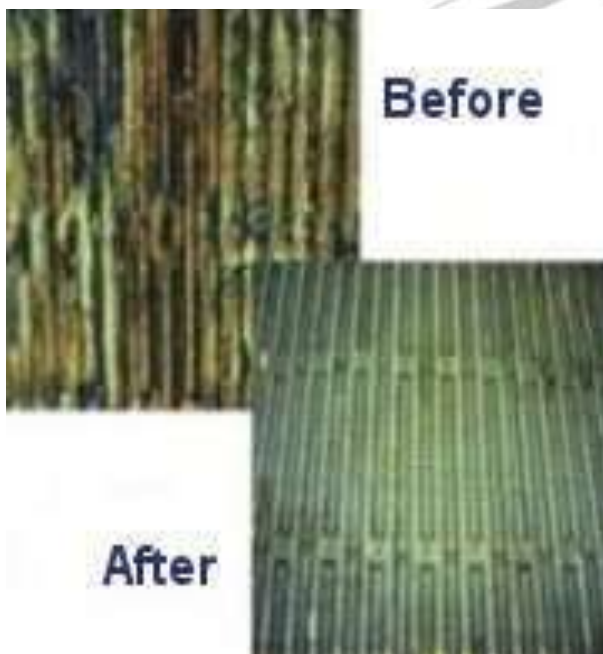
After

FINSHIELD

Protects the delicate fins.

Finshield is fins protecting sprayable compound, to protect the fins from corrosive attacks.

USE OF MAGIC BLUE SPG & FINSHIELD



Fins, in any heat exchanger, are most important but very delicate part, susceptible to corrosive atmospheric attacks, which reduces the life span of fins and of heat exchanger thereby, requiring frequent change. This becomes quite expensive affair when we take into account of total cost involved of capital, labour, shut down etc.

Finshield exactly addresses this problem forming a stable anti corrosive layer on the fin surface protecting them against the corrosive attacks.

EXIMIOUS

CoBanCo - 1006

Coat to Ban Corrosion

CoBanCo – 1006 is a carefully formulated polymer coating, fortified with anti corrosion additives, designed to protect the metallic surfaces from severe atmospheric corrosion, It is designed to protect all metallic surfaces, including Ferrous & Non Ferrous, particularly Copper.

SAILENT FEATURES :

1. **Film forming :** CoBanCo - 1006 forms a complete, continuous film over the surface, protecting the bare metallic surface.
2. **Anti corrosion additives :** Anti corrosion additives are added to CoBanCo - 1006 which ensures the protection even at elevated temperature of 70°C.
3. **Ease of operations :** CoBanCo - 1006 being liquid in nature, it is easily brush able and very easy to apply.

HOW TO APPLY :

At room temperature, apply CoBanCo - 1006 by brush over the surface & cover it completely. We recommend two coats of the same. In case of temperature, CoBanCo - 1006 should be applied at room temperature and upon touch dry condition, the system should be restarted.

PRECAUTIONS :

Proper personal precautions should be taken like goggle, mask and hand gloves.

PACKING :

CoBanCo - 1006 is available in 5 kg HDPE carboy.

MAGIC BLUE - SPG

Magic Blue SPG is water based air side exchanger fins cleaning cum protecting compound.

Air side of any heat exchanger is always contains the fins for effective heat transfer. These fins are designed very delicate. Air passes through the fins and cools the fluids running through the heat exchangers.

These fins are subjected to atmospheric corrosive attacks, which reduces the life of radiator leading to frequent replacements. Secondly, the air contains a lot of suspended particles, which settle in the narrow paths between the fins, blocking the air passage thus hampering the effective heat transfer.

Magic Blue SPG is water based air side exchanger fin cleaning compound, which is also designed to give a corrosion protection to the fins. The application is by spray pump operating at a moderate pressure.

Magic Blue SPG is packed in 5 Kgs. & 50 Kgs. HDPE carboys.

EXIMIOUS

SPMs for HVAC & R Industry

We have developed Special Purpose Machines (SPMs) for easy maintenance of HVAC & R systems. The advantages of using these machines are,

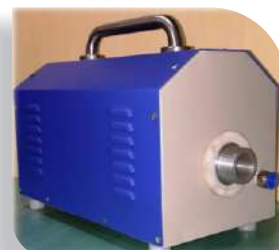
1. Save time
2. Save manpower
3. No special skills are required.
4. The job becomes very easy to execute

The details of the machines are as follows,

FLEXiii Machine :-Flexible Shaft Rotary Brush Cleaning Machine.

Flexiii is flexible shaft rotary brush cleaning system, which is designed to clean the condenser tubes of the chiller plants, boiler tubes, shell & tube heat exchangers etc.

FLEXiii will clean the tubes without damaging the tubes. In the cleaning operation, flexible shaft with the brush rotates and water is injected inside through nylon casing up to the brush. Thus whatever gets removed because of a rotary brush, gets flushed out immediately.



Flexiii machines are made to order.
Please let us know the tube diameter and length of the tube.

CTD Machine :-Chocked Tube Drill Machine.

Chocked tubes, fully scaled up tubes of condensers are a normal phenomenon in the industry. It is highly undesirable as it reduces the heat transfer efficiency, increases the power consumption, making the system energy guzzling.

Team EVPL analysed this problem very closely. The scales become so hard that it was difficult for any chemical to penetrate through the same.

The unique scheme was envisaged that the water travel path should be made clear so that with chemicals, the scales and depositions can be removed.

The tubes of condensers are small in diameter plus have a substantial length, hence extendable shaft was designed and drill tool is installed at the front.



CTD machines are made to order.
Please let us know the diameter of the tube and length of the tube.

PORTACLEAN DESCALING Machine :- Clean & descale wherever required.

Portaclean, the descaling machine is designed and manufactured by EVPL keeping in mind the demand of the industry, where a number of systems, heat exchangers, PHEs etc. are located at various places. Connecting the pipelines and attaching a pump for circulation through a drum becomes quite cumbersome. Portaclean, portable descaling machines, exactly address this issue.

Portaclean machines are trolley mounted for easy operations.

Portaclean machines can be used to clean and descale dies, moulds, PHEs, Heat exchangers, Condensers, AHUs etc.

Portaclean machines are made to order.
Please let us know your requirements.



EVPL manufactures D'Scale series of safe and reliable descaling chemicals.
Visit our website www.evpl.co.in to know more.

You can contact us at - 