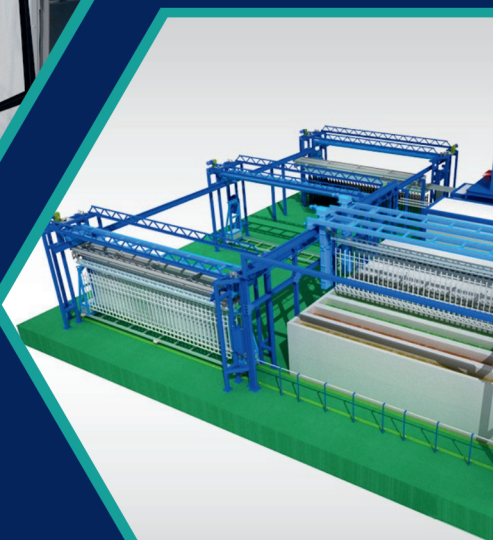




Indochem Enterprises

ISO 9001:2015 Certified Company



WE ARE MANUFACTURING METAL PRETREATMENT CHEMICALS

Phosphating Sequence | Chromating Sequence
Paint Stripper & Remover | Emulsified Degreasers
Galva-Grip (For Galvanized Sheet) | Brass - Copper
Cleaner | Pipe & Tube Phosphate & Wire Drawing

Dealers in : Industrial Chemicals | Solvents | Acids
Dealers in : Coating Powder Supplier
Laboratory Requisites & General Suppliers
Specialist In : Surface Technology

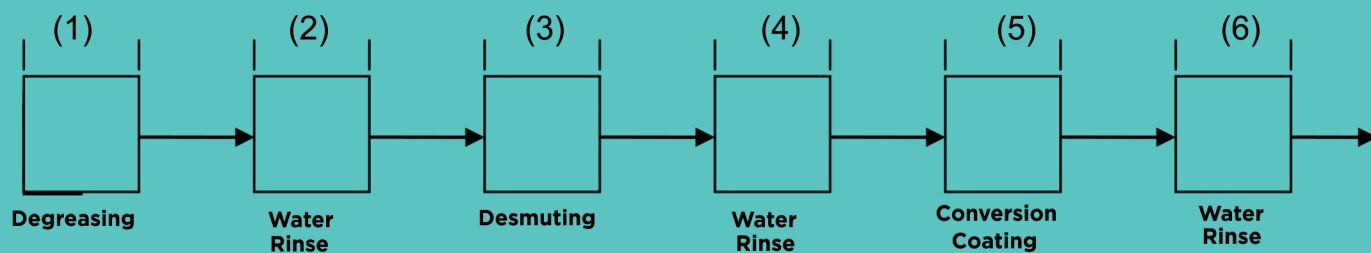


ALUMINIUM TREATMENT

CHROMATISING CHEMICALS

Chromatising chemicals are used for pretreatment of aluminum before painting / powder coating. Chromatising process imparts an amorphous coating on aluminum, which serves as an excellent base for paints.

PROCESS SEQUENCE : (COLD PROCESS)



CONVENTIONAL 6 TANK PROCESS FOR PAINTING - POWER COATING

PRODUCTS:

**INDOCHEM 02YC
CHROMIUM OXIDE
COATING, GOLDEN YELLOW IN
COLOUR.**

**INDOCHEM 02YC NANO
ZIRCONIUM BASED EXTRA LIGHT
COLOURLESS COATING**

DEGREASING CHEMICALS : (NON FERROUS METALS)

ALKALINE DEGREASER

PRODUCT	RECOMMENDED USE	USE PARAMETERS
INDOCHEM 01-ALK/SSP	Sequesters; low foaming; Non-silicate base; Quickly removes oils; for aluminum.	5% w/ v at ambient temp.

ACIDIC DEGREASER / DEOXIDISER (NON FERROUS METALS & ALLOYS)

PRODUCT	RECOMMENDED USE	USE PARAMETERS
INDOCHEM 01-ALK/SSP	An aqueous acidic mixture very effective degreaser, etcher & desmutter for aluminum.	4%-10% v/v at ambient temp

DESMUTING - Removal of smut and oxide layer from aluminum surface.

INDOCHEM ALU - 04 is used for deoxidation of aluminum and aluminum alloys surface.

INDOCHEM ALU - 01 is used for deoxidation of only aluminum.

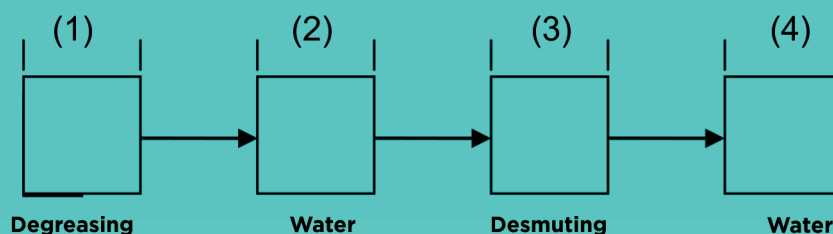
PRODUCTS	NATURE	CONC.	TIME	TEMP
INDO CHEM ALU 04	Mild Etching desmuting chemical	20-25%v/v	5-10min	RT
INDO CHEM ALU 01	Etching type desmuting chemical	2-3%v/v	2-5min	RT

CHROMATISING CHEMICAL : (FOR ALUMINIUM & ALLOYS)

PRODUCT	RECOMMENDED USE	USE PARAMETERS
INDOCHEM 02 ZIR NANO	Zirconium bases extra -Light colorless coating or aluminum section & Fixtures	0.25 %-0.5 %v/ vat ambient temp.
INDOCHEM 02YC	Chromium oxide Coating of yellowish colour for aluminum sections & aluminum alloy	2%-5%v/vat ambient temp.
INDOCHEM 02 GREEN	Chromium Phosphate Coating of Greenish colour for Aluminum section & fixtures	2%-5%v/vat ambient temp.

USES: Ideal for Fan blades, Water filters, Flourescent Fixtures of aluminum. Aluminum sections & other aluminum components etc before painting/ powder coating.

PRE-TREATMENT FOR ALUMINIUM CASTING



PRODUCT	RECOMMENDED USE	USE PARAMETERS
ALKLINE SERIES	Sequesters; low foaming; Non-silicate base; Quickly removes oils;	5 % W/v vat ambient temp.
ACIDIC SERIES	An aqueous acidic mixture very effective degreaser, etcher and desmutter	25%-30%v/ vat ambient temp.

USES:

1. For light to heavy oil, light duty ALKLIN chemicals can be used. Desmuting step is compulsion with ALKLIN if used for heavy oil components. The same may be omitted for light oil.
2. For light to medium oil, ACIDICSERIES of chemicals may be used. This does not require desmuting process.

DESMUTING - Removal of Oil,smut and Oxide layer from surface-optional step.

**INDO CHEM
CLEANER**

Combined Degreasing-desmuting

2-5% V/v vat

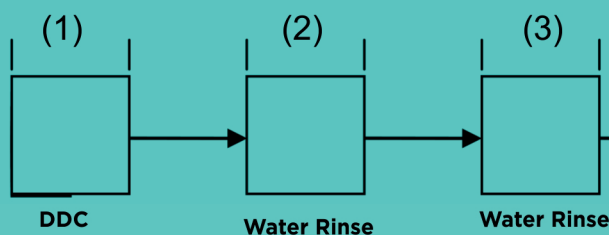
USES:

Degreasing can also be omitted as this has combined degreasing desmutin properties. Articles should not by any chance be kept in this series of products beyond specified period of time.

CHROMATING : GIVES AMORPHOUS CHROMATE COATING ON ALUMINIUM SURFACE

PRODUCTS	NATURE	CONC.	TIME	TEMP
INDOCHEM- YC	Yellow Chromate Coating	2.-3% v/v	5-10min	RT

This coating prevents oxidation of aluminium die casting material and gives the necessary adhesion required for painting or powder coating



CHROME FREE PROCESS

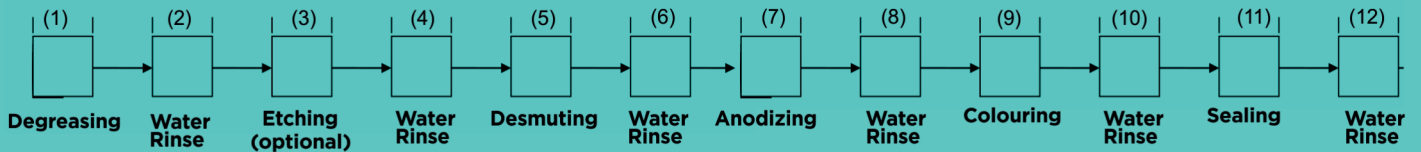
Cleaning Coating : Removal of Oil, Grease & Oxide layer & giving amorphous conversion coating on the surface.

PRODUCTS	NATURE	CONC.	TIME	TEMP
INDOCHEM - DCC	Acidic Cleaning Plus Coating. Chrome Free Coating	5-15% v/v	5-10min	RT

ADVANTAGES OF THE PROCESS

- The process is simple-user friendly.
- Very short process cleaning and coating takes place in the same chemical.
- The process does not require any external heating.
- The chemicals are chrome free hence environment friendly.
- Very good adhesion for paint / powder coating

COLOUR ANODIZING OF ALUMINIUM



CONVENTIONAL 12 TANK PROCESS OF COLOURING

DEGREASING - Removal of Oil, grease & oxide coating from aluminium surface.

PRODUCTS	NATURE	CONC.	TIME	TEMP
ALK HD 01/ CAUSTIC SODA	Alkaline Degreasing	5% w/v 6-8% w/v	5-15min	RT to 65C

ETCHING - Chemical finishing of degreased aluminium surface.

PRODUCTS	NATURE	CONC.	TIME	TEMP
Alu brightner	Acidic Etching	3-5% v/v	10-15min	RT

DESMUTING - To remove traces of black smut left

PRODUCTS	NATURE	CONC.	TIME	TEMP
NITRIC ACID	Acidic Etching	10-15% v/v	2-5min	RT

ANODIZING - Electrochemical Conversion process leaving porous oxide coating on aluminium surface.

PRODUCTS	CONC.	TIME	VOLTAGE	CURRENT DENSITY	TEMP
SULFURIC ACID	160-180 gm/lit	30 min	14 to 18% V D.C	10-15 A /sq.ft.	15-20 C

ELECTROLYTIC - Electro deposition of metallic color particles into the anodic coating.

PRODUCTS	NATURE	CONC.	TIME	VOLTAGE	TEMP
INDOCHEM ALU META91	Metallic salt. Colour stabilizer & throwing power improver	12-15 gm/lit	15 sec to 13 min depending upon the colour shade required.	14 to 18 V A.C	RT
INDOCHEM ALU META92		18-22 gm/lit			
INDOCHEM ALU 301	Liquid with combined colour and stabilizer. Easy to use.	6-7% v/v			
INDOCHEM ALU 302		12-14% v/v 18-22 gm/lit			

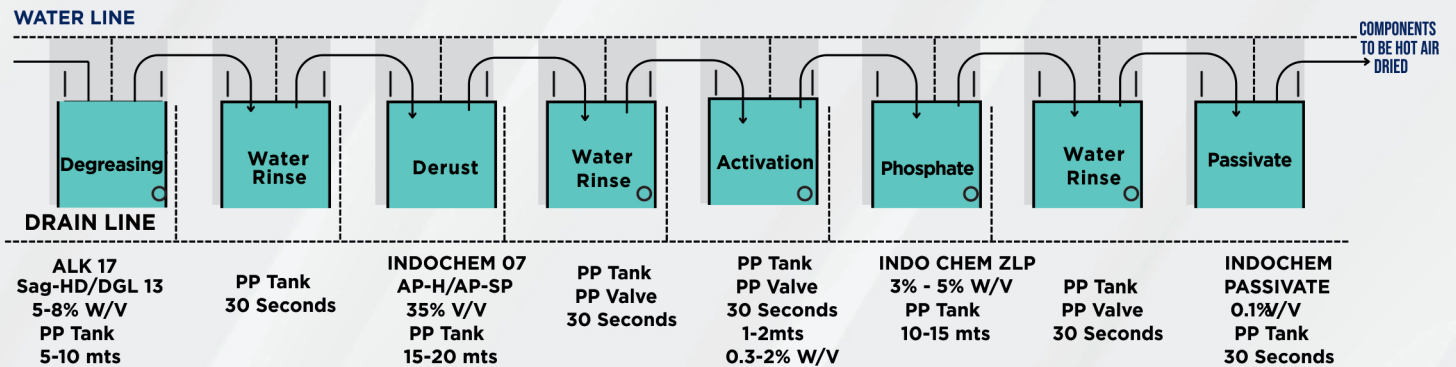
SEALING - Seals the pores of anodic coating

PRODUCTS	NATURE	CONC.	TIME	PH	TEMP
INDOCHEM ALU SIL 51	Impregnating metallic salts	5 gm/lit	0.5-1min/micron of anodic coating	5 to 6.5	RT
INDOCHEM ALU SIL 52	Impregnating metallic salts	4 gm/lit	0.5-1min/micron of anodic coating	5 to 6.5	RT

MILDSTEEL TREATMENTS

Phosphate Conversion Coatings Typical Phosphate Treatment Sequence (immersion) (Before Powder Coating/ Painting)

Process Sequence : (cold Process)



STAGE 1 :DEGREASE/SURFACE CLEANING (FERROUS METALS& ALLOYS)

ALKALINE DEGREASER (IMMERSION TYPE)

PRODUCT	RECOMMENDED USE	USE PARAMETERS	TIME
INDO CHEM ALK 17	Sequesters; low foaming; Quickly removes greases, oils,Carbonaceous deposits	5% w/vat 70°C to 80°Ctemp. 8%-10%w/vatlaw temp40°C-50°C	10 TO 15 MIN
INDO CHEM ALK 17SSP	Heavyduty; sequesters; Quickly removes grease, oils,Carbonaceous deposits, Engine varnish, Drawing compounds, paints, rust preventives.	2%-5%v/vat ambient temp.	10 TO 15 MIN
INDO CHEM. 13DGL	Acidic Degreasing Liquid	20-25 v/v ambient temp.	10 TO 15 MIN
INDO CHEM. 13SSP	Acidic Degreasing Milky liquid	15-20 v/v ambient temp	10 TO 22-25 v/v ambient temp 15 MIN

• See acidic degreaser

STAGE 3 : DERUSTERS (FERROUS METALS & ALLOYS)

PRODUCT	RECOMMENDED USE	USE PARAMETERS	TIME
INDOCHEM 07	Inhibited ; removes rust; light oxides, smut, other soils ideal for mass finishing	25% to 40% v/vat room temp	10 TO 15 MIN
INDOCHEM 07SP	Inhibited ; law foaming ;removes heavy rust, mill scale, other soils.	25% to 33% v/vat room temp	10 TO 15 MIN
INDOCHEM 07RUSH	Inhibited;law foaming; removes rust, Scale uniformly etches base metal.	25% to 40% v/vat room temp	10 TO 15 MIN

2 IN 1 CHEMICAL Derusting chemical with excellent degreasing properties used to remove mild oil and rust in light scale

PRODUCT	RECOMMENDED USE	USE PARAMETERS	TIME
INDOCHEM 2in 1	Emulsified Acidic derusting	25% to 30 %v/vat room temp	10 TO 15 MIN

STAGE 5 : ACTIVATOR (OPTIONAL STAGE PRIOR TO PHOSPHATING)

PRODUCT	RECOMMENDED USE	USE PARAMETERS	TIME
INDOCHEM 21 Activator	Acid based product for development of compact crystal structure.	1%to2%w/v of bath	2 TO 3 MIN
INDOCHEM 21 AKL Activator	Titanium based product for development of compact crystal structure. Reduces coating weight and Phosphating time.	0.3 %to0.5%w/v Of bath	2 TO 3 MIN

STAGE 6 : PHOSPHATING CHEMICALS (PAINT BASE COATINGS)

PRODUCT	RECOMMENDED USE	USE PARAMETERS	TIME
INDOCHEM ZLP 10	Zinc phosphate;calcium modified; economical, compact crystal structure;	5%v/vat70°C for 10 minutes.	2 TO 3 MIN
INDOCHEM ZLP - COLD-LP	Zinc phosphate ;compact crystal structure;	4%-6%v/vat ambient temp for 15-20 minutes.	10 TO 20 MIN
INDOCHEM ZN/IRON PHOSCOAT	Zinc/Iron phosphate ; compact crystal structure, law coating weight	3 to 5%v/v at ambient temp for 10 minutes	10 TO 20 MIN
INDOCHEM ZLP-COLD	Zinc phosphate ; chlorate accelerated ;high corrosion resistance, compact crystal coating, law coating weight	5%v/v at ambient temp for 10 minutes	10 TO 20 MIN

***Oxy Salt (L) or (S) : This is added to Phosphate bath.**

Remark iron phosphating does not require activation stage

STAGE 8 : PASSIVATION (SEALING)

PRODUCT	RECOMMENDED USE	USE PARAMETERS	TIME
INDOCHEM 18 PASSIVATE	Liquid Passivation Chemical (chrome Based)	0.1%v/vat70°C	
INDOCHEM 19	Non Chrome Liquid Passivation Chemical	0.1%v/vat70°C	

25% v/v =25 liter chemical + 75 Liter water

5% w/v = 5kg powder in 100 liter water

RUST PREVENTIVE OIL

Rust preventive oil, also known as a rust inhibitor or corrosion inhibitor oil, is a type of lubricant designed to protect metal surfaces from corrosion. It works by forming a thin, protective film on the metal that prevents moisture and oxygen from contacting it, which are the main causes of rust.

Applications : Used in various industries, including automotive, manufacturing, construction, and storage.

3 IN 1 CHEMICALS ARE MUST BEFORE PAINTING

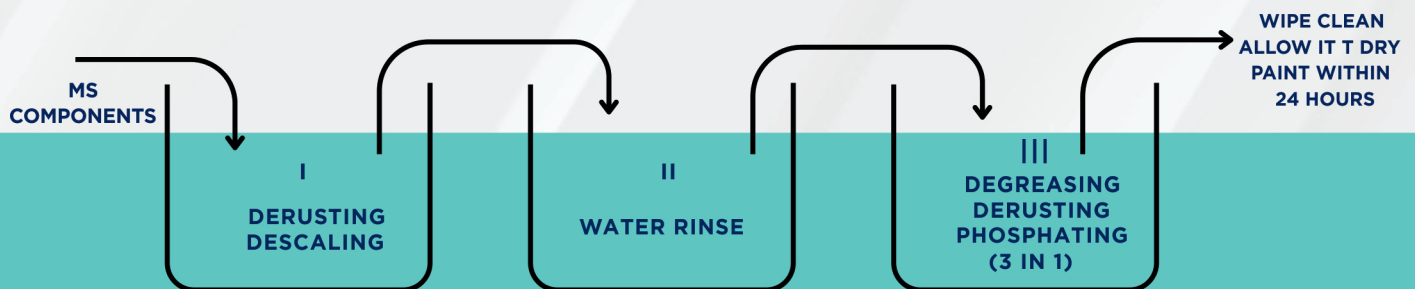
Indeochem offers largest range of 3 in 1 chemicals (simultaneous cleaning, pickling & phosphate coating). Whenever seven stage phosphate coating is not feasible, these Chemicals can be effectively used for single /three stage phosphate coating of components.

These processes give coating of iron phosphate of weight 40 to 100 mgm/sq.ft. Due to Low coating weight, corrosion resistance is low & painting must be carried out immediately. Immersion application is always preferred over brushing application for better & faster results.

Advantages of 3 in 1 chemicals are easy handling, less space requirement, no power requirement & lower cost treatment.

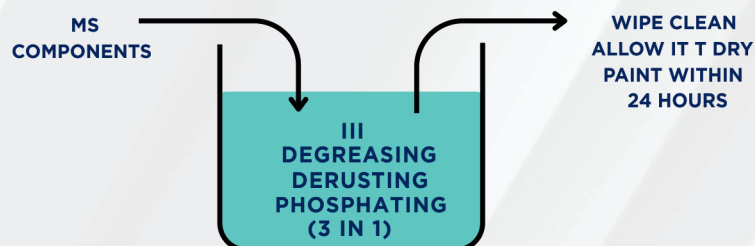
3 STAGE PRETREATMENT

A). WHEN COMPONENTS CONTAIN HEAVY RUST OR SCALE OR HEAVY OILS



SINGLE STAGE PRETREATMENT

B). WHEN COMPONENTS CONTAIN MEDIUM GREASE & MILD RUST.



Tank material : M.S. Tank lined with FRP or. For choice of suitable chemicals, please call our technical service department.

STAGE 6 (A) : MEDIUM/HEAVY PHOSPHATING CHEMICALS (CORROSION RESISTANCE)

(FOR AUTO PARTS, HARDWARE, WIRE AND TUBES)

PRODUCT	RECOMMENDED USE	USE PARAMETERS	TIME
INDOCHEM ZHP	Heavy Zinc phosphate coating for nut, bolts auto parts: for excellent corrosion resistance, coating to be sealed with e watering oils. confirms dIS 3618 class.	5% v/v at 75°-80°C 5-15 minutes.	10 to 20 min
INDOCHEM MHP	Heavy Manganese phosphate coating for rotating parts like gears, shafts, rooting wheels, etc. This phosphate coating has oil retaining properties ; confirms IS3618 class A.	6%v/v at 90°-95°C 5-15 minutes.	10 to 20 min
INDOCHEM WT POSH	Used for phosphating of tubes & Wires which helps to retain lubricating products & facilitates drawing.	5%v/v at 70°C 5 - 15 minutes	10 to 20 min

SPECIALITY CHEMICALS :

PRODUCT	RECOMMENDED USE	USE PARAMETERS
ACIDIC DEGREASER	Indochem -SP-CCT effectively remove soils and mildrust from MS component sat Room Temperature. Ideal for electroplaters replaces alkaline degreasers.	10%to20%v/v in water
EMUSIFIED DEGRASER	Indochem DGL-SP Removes toughest grease deposits ideal for replacement of alkaline degreasers.	15%-25%v/v cold, 10-20 minutes
INHIBITOR	For Hydrochloric Acid & Sulfuric Acid Selective removal pf rust, scale without attacking base metal.	0.5%v/w of pure acid
GALVA GRIP INDOCHEM-GG	Phosphating of GIsheets, mainlyfor airconditioner cabinets	5-10% v/v Immersion cold, 5-10minutes
BRASS-COPPER CLEANER	Cleaning & Brightening of Brass, Cooper & other bimetallic Components	25-33% v/v Immersion cold, 10-20 minutes
2 In 1	This chemical 2 in 1 removes grease and rust in single stage.	20%-30%v/v, cold 15-20 minutes
PAINT STRIPPERS	Solvent based paint removal, removes powder coatings within 3 to 10 minutes	100%in specially designed container
Blackening Salts (AB)	Oxidised blackening for MS articles, jet black colour	50%w/v in water

BY ULTRASONIC CLEANING FOR METALS & NON METALS

Concentration	Temperature	Time (Minutes)
3% to 20% (30 to 100ml/litre)	Room Temp to 75C	2-20

BITUMINOUS PAINT

Bituroll is used as waterproofing membrane on the f ollowing structures: Bituminous Paints are alkaline resistant hence it is used for under waterstructure, weather protecting steel work, waterproofing, wood, concrete & potable water tanks.

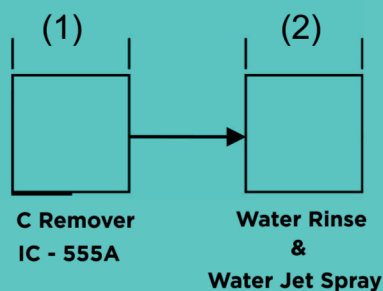
3 IN 1 CHEMICAL (IRON PHOSPHATE COMPLIES IS 3618 CLASS-D)

PRODUCT	RECOMMENDED USE	USE PARAMETERS
INDOCHEM IC 100 iron phoscaot	Metal surface coating rang in colour from pale yellow to blue-red it commonly used as a corrosion protection measure.	Immersion or Brush 25%to 50% v/v Cold
INDOCHEM IC 04 Plus & SP	For heavy grease and light rust; Mainly for steel furniture slotted angles, drums, buckets, etc.	Immersion or Brush 25%to 50% v/v Cold
INDOCHEM IC 06 MCL 6.5	For more rust & light grease; Mainly for Cast Iron or forged components, treatment before powder coating	Immersion or Brush 25%to 50% v/v Cold
INDOCHEM IC 900 SP	For hard grease and light rust ; mainly for pipes engines, other heavily greased articles.	Immersion or Brush 25%to 50% v/v Cold
INDOCHEM IC 05 Green Chrome Base	For hard grease and light rust ; mainly for pipes engines, other heavily greased articles.	Immersion or Brush 25%to 50% v/v Cold

Caution : All chemicals contains acid/alkalis. Use with rubber hand gloves & eye shield

PRETREATMENT FOR CEMENT REMOVER

ALUMINIUM MIVAN SHUTTERING CEMENT REMOVER



CONVENTIONAL 2 TANK PROCESS FOR CEMENT DISSOLVER

C Remover : IC-555A This concrete dissolver cleaner chemical works smartly on the dry hard waste concrete. You can use this concrete dissolver chemical various surfaces for cleaning porpose.

PRODUCTS	NATURE	CONC.	TIME	TEMP
C Remover IC-555A	Etching type cleaning liquid	100%v/v	10 to 20min	RT

IC-600 CLEAR GLOSSY LACQUER PURE

Applications : Excellent flexibility, pigment dispersion & plasticiser resistance. High gloss & gloss retention. Good all round weathering properties. Good for exterior concrete application.

Drying Time :

Touch Dry - 5 mins Max | Tack Free - 25 mins Max | Hard Dry - 25 mins Max

INDOCHEM 666

Indochem 666 is a concentrated organic tank cleaner. It is formulated for effective removal of white residues from ISO Tank Container, Ship's Storage Tanks, remaining after carriage of fatty acids & have carried hydrocarbon solvents & solids. This is very fast, efficient remover stubborn hydrocarbon deposits from all tank containers and tanks. as well as stains removal and to upgrade coated cargo tanks.

YOUR SEARCH FOR EFFICIENT PAINT STRIPPER ENDS HERE!

Dimetrics Chemicals welcomes you. We are proud to introduce ourselves as the leading suppliers of metal pretreatment chemicals.

PAINT & STRIP is heavy duty industrial paint stripper used for removal of paint from metal surface. The chemical penetrates through the film and the film bubbles out. It is used to remove all types of liquid as well as powder paints, lacquers, enamels & polyurethanes from metal surface.

PAINT & STRIP is used by immersion application at room temperature. The dipping time may range from 2 to 5 min depending upon the surrounding temperature, nature and thickness of the paint. It may also be applied by brush on the surface of the coating to be removed. Allow to stand for 2 to 5 min, depending upon the nature and thickness of the coating to be removed. Two or more brush may have to be applied for complete removal of stubborn paint. Remove by scraping, brushing or water jet application.

- 1). We formulate products based on the end user's specific requirements through extensive R&D and validation procedures.**
- 2). We provide reliable and quality products timely as we maintain strict quality control procedures for our raw materials and finished goods.**
- 3). We offer comprehensive customer support post supply**
- 4). We supply products at most competitive prices.**
- 5). We are supplying to hundreds of esteemed customers since years with best of their satisfaction**

PRODUCT LIST

- Zinc Phosphating Cold (R.T)
- Zinc Phosphating Hot
- Iron Phosphating
- Manganese Phosphating
- Wire Drawing Phosphating
- Alkaline Degreasing Powder (m/s)
- Alkaline Degreasing Liquid (m/s)
- Acidic Degreasing Liquid
- Solvent & Acidic Degreasing Liquid
- 2 in 1 Chemical Derusting & Degreasing Liquid
- Derusting Liquid
- Acidic Activation
- Alkaline Activation
- Alkaline Base Passivation
- Chrom Acid Base Passivation
- Mix Solvent Thinner
- 3 in 1 Chemical (degreasing, derusting & coating deposition of iron phosphate
- 3 in 1 Chemical Solvent Base
- 3 in 1 Chemical Chrom Base
- Rush Preventive Oil
- Bituminous Paint

All' in one Chemical for m/s. Aluminium & other

- Aluminium Alkaline Degreasing Powder
- Aluminium Alkaline Degreasing Liquid
- Aluminium Acidic Degreasing
- Aluminium Solvent & Acidic Degreasing
- Aluminium Chromate (yellow)
- Aluminium Casting Alkaline Degreasing Powder
- Aluminium Casting Alkaline Degreasing Liquid
- Aluminium Casting Acidic Degreasing Liquid
- Aluminium Casting Chromate (yellow)
- G I Galvanized Iron Cleaner
- Brass & Copper Cleaner
- Blackening Salts & Liquid
- Aluminium Anodizing Chemical
- Paint Stripper & Removers
- Aluminium Anodizing Remover
- G I Galvanized Remover
- Aluminium Mivan Cement Remover
- Industrial & Laboratory Chemical
- Powder Coating Powder
- IC 600 Clear Glossy Lacquer
- IC 666 ISO Tank Cleaner



**Indochem
Enterprises**

ISO 9001:2015 Certified Company



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