



THE DOVECHEM GROUP



GROW & SERVE

Formaldehyde

Paraformaldehyde

Formaldehyde Resin

Emulsion

Terminal



Certificate No. ID08/01092



Certificate No. ID09/01265



Certificate No. ID10/01586

VISION

Best Solution for Chemical Product, and Terminal Operator Service in the Region.

MISSION

- Providing Best Quality, and Technical Service for Liquid Formaldehyde, Paraformaldehyde, Formaldehyde Resin, and Emulsion Product.
- Providing Best Liquid Chemical, and Petroleum Handling Service as Terminal Operator in the Region.

COMPANY BACKGROUND

Founded in 1960, the Dovechem Group is one of the leading chemical distributors in Asia Pacific engaged in Distribution, Manufacturing, Terminal and Logistics for the petrochemical related industries.

In 1980 we establish PT. Dover Chemical, an Indonesia PMA chemical company, which known as one of the leading chemical manufacturing company and bulk liquid terminal & integrated logistics located in Merak, Cilegon, Indonesia.

We produce formaldehyde, paraformaldehyde, formaldehyde resins (UF, MF, PF, MUF) and emulsion adhesives which are commonly used in many industries. We are continuously improve our manufacturing process and capacity to achieve production efficiency and effectiveness.

To facilitate the need of product storage and transmission, which the materials will be used for our manufacturing, we invested in bulking terminal business by building tank farms, jetty, pipelines, etc., to carry out the terminal operations from the point of vessel arrived until products are stored in the tanks.

"We are the leading Formaldehyde, Paraformaldehyde, Formaldehyde Resin, Emulsion manufacturer and Terminal Operator in South East Asia"

Today, with skilled and experienced terminal operators, continuous improvements in terminal process, we are confidence to provide services by leasing tanks to companies which need space to store their liquid products.

We placed priorities and privilege to our customers. We endeavor to fulfill the needs of our business associates. We insists on delivering the best products & services with competitive price to the customers on time!

With continuous supports from suppliers and customers, we continues to strive and soar in the chemical industry.



MANUFACTURING PRODUCT LIST AND INDUSTRIES



Manufacturing of Formaldehyde, Paraformaldehyde, Formaldehyde Resin and Emulsion

Bulk Liquid and Handling Service





Paraformaldehyde is the solid form of liquid formaldehyde. Formed by the polymerization of formaldehyde with a typical degree of polymerization of 8-100 units. Since paraformaldehyde is basically a condensed form of formaldehyde or aqueous formaldehyde, it possesses the same characteristics. In fact, it can be used as a substitutes of aqueous formaldehyde to produce the resinous binding material, which commonly used together with melamine, phenol or other reactive agents in the manufacturing of particle board and plywood.

Typical Properties

1. Paraformaldehyde-92

Paraformaldehyde Content	: 92% ± 1%
Water Content	: 8% ± 1%
Reactivity	: 2 - 8 min
Mean Particle Size	: 250 - 350 µm
Ash	: 0.01% - 0.05%
Appearance	: Free Flowing
Bulk Density	: 650 - 850 kg/m ³
Melting Point	: 120 - 175 °C
pH	: 4 - 7

2. Paraformaldehyde-96

Paraformaldehyde Content	: 96% ± 1%
Water Content	: 4% ± 1%
Reactivity	: 2 - 8 min
Mean Particle Size	: 250 - 350 µm
Ash	: 0.01% - 0.05%
Appearance	: Free Flowing
Bulk Density	: 650 - 850 kg/m ³
Melting Point	: 120 - 175 °C
pH	: 4 - 7

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STORAGE AND HANDLING

Precautions:

Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage:

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Keep away from incompatibles such as oxidizing agents, reducing agents, metals, acids.

APPLICATION

1. Resin, used for:

- Urea-Formaldehyde Resin
- Phenolic Resin
- Melamine Resin

2. Other Uses:

- As Fumigation
- As a reagent for organic reactions
- Disinfectant
- Fixative
- Herbicide
- Pesticide
- Fungicide
- Bactericide
- Pharmaceuticals
- Coating



Automotive Coating



Disinfectant



Pesticide



Pharmaceuticals



We produce a wide variety of quality products, specializing in wood adhesives and thermosetting resins such as Urea Formaldehyde, Melamine Formaldehyde and Phenol Formaldehyde. We have been developing innovative adhesive solutions that are more adaptive to the forces that shape our daily lives. With in-depth knowledge of adhesives, bonding systems and application methods, each product is formulated to meet exact specifications.

We take great pride in the level of service we provide, our strong sense of commitment to our customers and the ability to meet deadlines. At all levels, our plant operations utilize management practices and the best available technology to maximize product quality and minimize environmental impact. These carefully planned efforts have reduced production waste to levels approaching zero.



By using our glue, you are not only able to produce regular wood based panels (plywood, MDF, particleboard, etc.), but also high-grade panels with low formaldehyde emission.

Dover Chemical provides technical support to you to achieve your desired products and application.



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OUR PRODUCT

I. By Type

1. Urea-Formaldehyde (UF)
2. Melamine-Formaldehyde (MF)
3. Melamine Urea Formaldehyde (MUF)
4. Melamine Exterior
5. Phenol-Formaldehyde (PF)
6. Hardener and Catcher

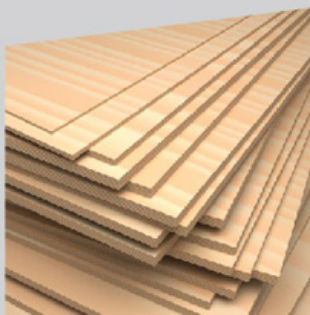


II. By Application

- Barecore
- Bent Wood
- Blockboard
- Medium Density Fibreboard (MDF)
- Particleboard
- Plywood
- Rock Wool



MDF



Plywood



Blockboard



Particleboard



Bent Wood



Barecore

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Formaldehyde solutions are used as raw material in a broad range of industries and applications including moulded articles; adhesives for plywood, particleboard and other types of wood panels.

Typical Properties

Formaldehyde Content	: 37% - 55% ¹⁾⁸⁾
Methanol Content	: 1% - 5% ⁵⁾⁸⁾
Acid Content	: 20 - 300 ppm ⁶⁾
Appearance	: Clear
Specific Gravity	: 1.1100 - 1.1430 ⁷⁾
pH	: 2.5 - 4.5

1) Method of analysis: Sulphite Method

2) Method of analysis: Resorcinol Method

3) Method of analysis: Malvern 2000, dry, 0.25 barg.

4) Method of analysis: Loss of weight, 2 hours, 850-1000 °C

5) Method of analysis: ASTM D2380

6) Method of analysis: ASTM D2379

7) Method of analysis: Hydrometer, 25 °C

8) By request

STORAGE AND HANDLING

Formaldehyde solutions should be stored in well-ventilated areas away from oxidizing and alkaline materials. The recommended storage temperatures should be maintained to minimize polymerization and precipitation which may occur at low temperatures and may plug equipment. Formaldehyde vapor may be given off at high temperatures. Prolonged storage should be avoided to minimize increases in acidity and to prevent polymerization. Storage tanks of type 304 and 316 L stainless steel are preferred.

Iron, copper and bronze are not recommended for tanks or lines. Steel, copper and certain alloys may discolor the product. For some uses, fiberglass, polyethylene or aluminum tanks are satisfactory.

Because formaldehyde vapor is combustible, storage tanks should be properly grounded. Keep container closed when not in use. Use only in well-ventilated areas. Additional information on the safe handling of formaldehyde can be found in our Safety Data Sheet.

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FORMALDEHYDE



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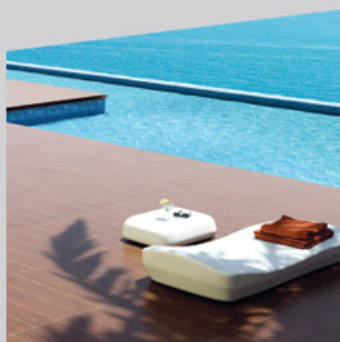
Dover Chemical is one of the largest producers of formaldehyde, primarily used in UF resins, MF resins, MUF resins and PF resins. Solution of formaldehyde is used in the manufacture of synthetic resins due to its high reactivity with phenol, urea, melamine and other similar compounds. Although there are many popular formulations, we have the capability and expertise to customize unique formulations to meet your specific needs.

APPLICATION

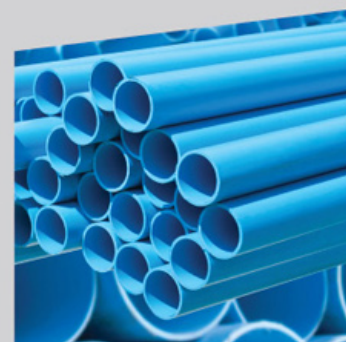
1. Liquid Resin
2. Melamine and Phenol Compound
3. Preservative
4. Textile Auxiliaries
5. Fumigation



Liquid Resin



Melamine & Phenolic Resin (Wood Deck)



Melamine & Phenolic Resin (Pipe)



Preservative



Textile Auxiliaries



Fumigation

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POLYMER EMULSION

Dovebond® emulsions from Dover Chemical represent the standard for quality and Eco-Friendly performance product. The Dovebond® emulsions is one of the broadest and most comprehensive of water-based dispersions. These dispersions are utilized in many industries including adhesive, paint and coating, textile, construction, ink, PSA and more.

Supported by the latest instruments of MFFT, Particle Size Analyzer, Drying Time Recorder, Gloss Meter and more.

OUR PRODUCT POLYMER EMULSION

I. By Polymer Type

1. PVAc
2. EVAc
3. Vinyl Veova
4. Vinyl Acrylic
5. All Acrylic
6. Styrene

II. By Application

A. Paint and Coating.

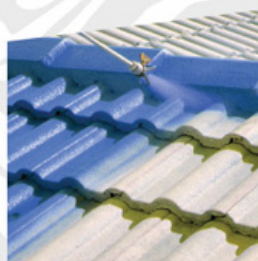
- Interior and Exterior Paint
- Roof Paint
- Metal Roof Paint
- Wood Coating
- Road Marking Paint
- Wall Putty



Interior and Exterior Paint



Wood Coating



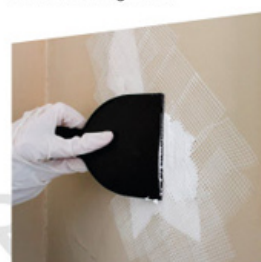
Roof Paint



Road Marking Paint



Metal Roof Paint



Wall Putty

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B. Construction

- Cement Modifier
- Water Proofing
- Elastomeric Paint



Cement Modifier



Water Proofing



Elastomeric Paint

C. Adhesive

- Wood Working
- Pressure Sensitive Adhesive
- Paper Overlay
- Packaging
- Paper to Paper
- PVC Overlay
- Generale Purpose
- Paper Coating
- Customs



Wood Working



Paper to Paper



PVC Overlay



Packaging



Paper Overlay



Paper Coating

D. Textile

- Binder for Non Woven Fabric
- Back Coating
- Flocking Binder
- Thickener
- Lamination
- Printing Binder



Non Woven Fabric



Back Coating



Flocking Binder

STORAGE AND HANDLING

Store the product indoor and away from direct sunlight.

Keep the remaining product in its plastic bags and tightly sealed to avoid skinning.

Storage life is 6 months (base on production date).



OUR SERVICES

We are a 113,000 KL bulk liquid terminal operator. We provide carbon steel, stainless steel, coated carbon steel and internal floating roof tanks for chemical storage or hazardous liquids. Other available services are heating, cooling, nitrogen blanketing, dry air, drum filling and internal / external storage facilities.

Area of Terminal	: 78,000 M2
Size of Berth	: 35,000 DWT Number
Number of Tanks	: 84 units
Storage Capacity	: 113,000 KL



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Jetty Information & Acceptance Criteria

Type	: Jetty Type "T"
Platform Size	: (10 X 6) M ²
Breasting Dolphin	: 4 Units
Rubber Fender	: 4 Units
Bollard	: 10 Units
Trestle	: (235 x 2) M ²
Length Over All	: 180 M
Draft Maximum	: 10.0 M



We have 4 loading station and 19 loading bays to serve product.

Safety, accuracy of cargo and an time efficiency became our goal to provide the best service for the customer and transportation partners.

PT. Dover Chemical is growing on customer confidence and we will continue to take steps in improving the services loading cargo.

Our distribution coverage includes almost all the cities in Java and Sumatra. We will continue to grow and expand its distribution network throughout Indonesia and abroad.

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OUR ACHIEVEMENT & INNOVATION





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PT. DOVER CHEMICAL

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FACTORY & TERMINAL

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