



Release Agent & Additives

PHOENIX ADDITIVES CHEMICALS



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PHOENIX ADDITIVES CHEMICALS

About Us

We, "Phoenix Additives Chemicals" is working with a sole motive to spread globally and expand the business horizon All over India. Our company is much proactive in the field of Imports & Merchandise trade in very specialized sector like, Additive Chemicals used for production Decorative High- Pressure Laminates, Pre-lamination MDF/PARTICAL BOARDS and Plywood Industries. Our commitment to work on 'Fair Trade Practice' has excelled the graph of our business growth and we are able to spread our business network in India.

"Phoenix Additives Chemicals" is engaged heavily on imports of chemicals, from international market Like Spain, Germany, France, Turkey etc., which is being supplied to various industries and customers at domestic level as well as oversea level. We are also engaged in Interim Trading and Domestic Trading. We source and import the merchandise keeping in mind the domestic customers of the industry. "Phoenix Additives Chemicals" is a pioneer company enjoyed in the buying & selling the merchandise on Third Country Trade Pattern.

We are looking to expand the horizon of our business spectrum in a true and determined way, with a sole objective to embark our presence worldwide. Keeping this prospective in our mind, we all seek serve our services and products to high quality concern Industries.

OUR CHEMICAL LIST

DEAR SIR, WE ARE SUPPLYING FOLLOWING ADDITIVE CHEMICALS

- 01- RELEASE AGENT**
- 02- WETTING AGENT**
- 03- RELEASE & WETTING AGENT (COMBO)**
- 04- ANTI BLOCKING AGENT**
- 05- GLOSS ENHANCER**
- 06- DI ETHYLENE GLYCOL (D.E.G)**
- 07- MONO ETHYLENE GLYCOL (M.E.G)**
- 08- PARA TOLUENE SULPHONIC ACID (PTS ACID)**
- 09- MORPHOLINE**
- 10- CAPROLECTOM (GSFC)**
- 11- DEFORMER**
- 12- PLATE CLEANING AGENT**
- 13- CAUSTIC SODA**
- 14- HEXAMINE**
- 15- MF HARDNER**
- 16- UF HARDNER**

We can also arrange:- PVA, Melamine, Formic Acid, Acetic Acid, Oleic Acid, Normal Butanol, DEA, TEA, Paraformaldehyde, Paraffin wax, Stearic Acid, DBP, Emulsifier, Ammonium Chloride(License required in Gujrat & Bihar).

Sir, we are requested to please register our name in your approved vendor

BRAND: - WURTZ (GERMANY)

Release Agent: PAT- 523

PAT-523/W is a highly specialized release agent specifically designed for the production of decorative laminates. Its primary function is to prevent materials from adhering to each other during the lamination process, thereby ensuring a seamless and efficient manufacturing experience. By utilizing PAT-523/W, manufacturers can achieve a consistently smooth and even finish on their decorative laminates, enhancing their overall quality and aesthetic appeal. This advanced release agent plays a critical role in streamlining the production process, resulting in increased productivity and reduced downtime.

Benefits of PAT – 523

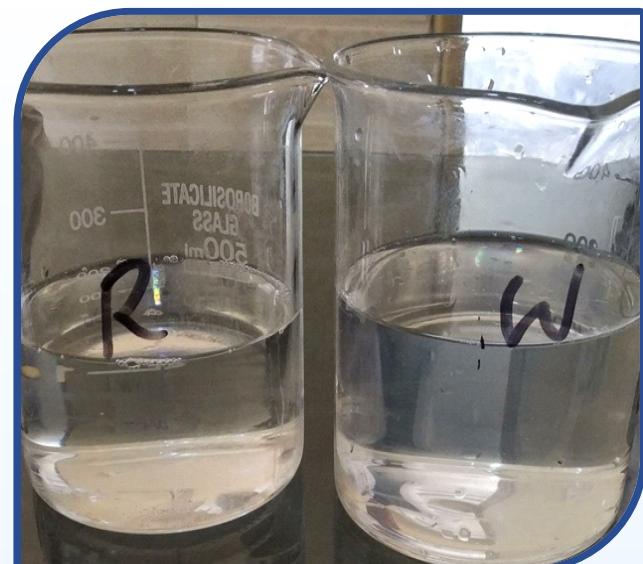
***Improve Production efficiency:** - When we use PAT 523 it reduces the press timing which increase the production efficiency.

***Improve Quality of Sheet:** - PAT 523 is a Specialized release agent when it uses for the production then it improves the quality of the sheet and also increase the glossiness of the sheet.

***Prevent Plate from Plate Poisoning:** - It is high quality release agent which save the plate from plate poisoning.

***Increase the Self life of Plate:** - When we use a quality material or release which save plates from dust and plate poisoning which increase the life of plate.

***Control the B-grade Sheet production:** - PAT 523 is a specialized release agent which save the sheet from tear and waste which results control the B- grade sheet production.



Instructions for Use:

- The recommended dosage is between 0.1% and 0.2% by weight of the resin.
- The optimal dosage may vary depending on processing conditions, so it's recommended to test different amounts.
- If watering down PAT-523/W for easier dosage, use distilled or deionized water.

Physical and Chemical Properties

***Appearance/Color:** Colorless

* **Density:** Approximately 1.0 g/cm³

* **Shelf-life:** Minimum 1 year

STORAGE & HANDLING

- * Store in original containers at ambient temperature.
- * If exposed to cold, PAT-523/W may thicken. Warm it to room temperature and stir gently to return it to its original consistency. This will not affect its release properties.

Wetting Agent: PAT- 959

PAT-959 is a liquid additive that improves the quality of paper treated with water-based resins, such as melamine and urea. It helps create an even layer of resin on the paper's surface and penetrate paper, resulting in a smooth finish and improved brightness. This non-ionic and ph-neutral additive prevents graying and is easy to use, requiring only careful mixing to prevent foam.

Benefits of PAT-959:

***Even Resin Distribution:** PAT-959 helps achieve a uniform distribution of resin on the paper surface, resulting in a consistent and aesthetically pleasing finish.

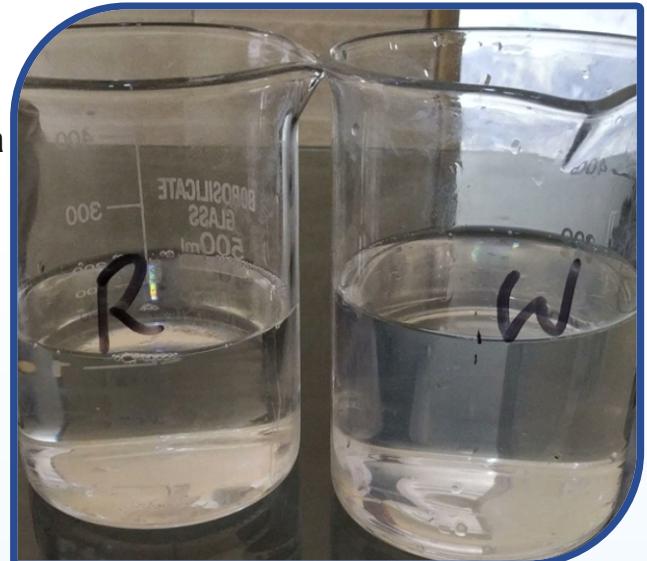
***Improved Brightness:** The closed surface and even resin distribution contribute to enhanced brightness, making the final product more visually appealing.

***Short-Cycle Compatibility:** PAT-959 is particularly effective in short-cycle processes, where time is limited, ensuring optimal results even under tight production schedules.

***Non-Ionic and Non-Buffered:** The non-ionic and non-buffered nature of PAT-959 minimizes its impact on the resin's ph value, reducing the risk of unwanted chemical reactions and maintaining the desired properties of the resin.

***Low-Foaming:** The low-foaming formulation of PAT-959 prevents excessive foam formation during the impregnation process, ensuring efficient and smooth operation.

***Minimal Color Drift:** PAT-959 helps to minimize color drift, maintaining the desired color consistency throughout the production process.



Instructions for Use:

- PAT-959 is added to the resin at a dosage of 0.2 to 0.5 percent.
- PAT-959 is non-buffered and non-ionic, minimizing its influence on the pH value of the resin.
- Although it is a low-foaming formulation, admixing air into the resin should be avoided.

Physical and Chemical Properties

- * Appearance/Color: Clear, colorless
- * Density: Approximately 1.0 g/cm³
- * Concentration: 50%
- * Shelf-life: Minimum 1 year

STORAGE & HANDLING

- * Store in original containers at ambient temperature.
- * Keep containers closed and don't put back material into the containers.
- * Contamination may cause problems during processing

Releasing and Wetting Agent: PAT-959N

PAT-959N is a combination release and wetting agent designed for use with water-based resin systems, particularly melamine and urea resins. PAT-959/N is a versatile internal release and wetting agent designed for water-based resin systems, particularly melamine and urea resins. It enhances the impregnation process of paper with aqueous resins, resulting in an even resin film on the surface. This leads to a closed surface and improved brightness, especially in short-cycle processes. The special composition of PAT-959/N prevents graying even when overfed. It is crucial to avoid air admixing during use as it is a low-foaming formulation.

Combined Effect:

By combining both wetting and release properties in a single product, PAT-959N helps to achieve:

- * **Even Resin Film:** A uniform coating of resin on the paper surface
- * **Closed Surface:** Reduced porosity for improved appearance and performance
- * **Good Brightness:** Enhanced color clarity and vibrancy
- * **Efficient Production:** Faster cycle times due to easier release and improved resin penetration

Benefits of PAT-959:

- * **Improved Resin Film:** PAT-959N helps achieve an even resin film on the surface of the paper, resulting in a closed surface and good brightness.
- * **Shorter Cycle Times:** It is particularly effective for short-cycle processes, allowing for faster production times.
- * **Reduced Graying:** Even when overfed, PAT-959N causes almost no graying, ensuring consistent color quality.
- * **Versatility:** It can be used with both melamine and urea resins, making it suitable for various applications.



Instructions for Use:

- PAT-959/N is added to the resin at a dosage of 0.3 to 0.5 percent.

Physical and Chemical Properties

- * **Appearance/Color:** Colorless, clear
- * **Density:** Approximately 1.0 g/cm³
- * **Shelf-life:** Minimum 1 year

STORAGE & HANDLING

- * Store in original containers at ambient temperature.
- * If exposed to cold, PAT-959/N may thicken. Warm it to room temperature and stir gently to return it to its original consistency. This will not affect its properties.

BRAND: - ATOLL

Release Agent (Atoll)

Atoll Release Agent is a chemical compound used in the paper impregnation process. Atoll Safe Plate is a release agent designed for high or low-pressure paper impregnation processes. It is a liquid, clear to yellowish substance that can be directly added to melamine, urea, and phenolic water-based resin mixtures.

Benefits of Atoll Releasing Agent:

- * **Reduced Pressing Time:** By facilitating the release of the impregnated paper from the press plates, Atoll Safe Plate helps decrease the overall pressing time, improving production efficiency.
- * **Prevents Resin Residue:** It effectively prevents resin residue from forming on the press plates, reducing cleaning time and maintaining plate quality.
- * **Reduced Downtime:** By minimizing cleaning and maintenance requirements, Atoll Safe Plate helps reduce production downtime, increasing overall productivity.
- * **No Adverse Effects on Resin Utilization Time:** The agent does not negatively impact the working time of the resin, ensuring efficient production processes.
- * **Prevent Plate from Plate Poisoning:** - It is high quality release agent which save the plate from plate poisoning.
- * **Increase the Self life of Plate:** - When we use a quality material or release which save plates from dust and plate poisoning which increase the life of plate.



Instructions for Use:

- The product is used directly without any dilution.
- The recommended dosage is between 0.1% and 0.5% by weight of the resin.
- The optimal dosage may vary depending on processing conditions, so it's recommended to test different amounts
- Ensure the application is done at room temperature for optimal results.

Physical and Chemical Properties

- * Form: Liquid
- * Color: Yellowish
- * Ph Range: 6.00 - 8.00
- * Melting Point/Melting Range: -15°C to -5°C
- * Boiling Point/Boiling Range: 100°C to 105°C
- * Flash Point: 244°C
- * Density (20°C): 1.00 - 1.10 g/cm³

STORAGE & HANDLING

- * Keep away from open fire.
- * Tightly closed containers.
- * Store at a dry place. At room temperature (+15°C to +25°C).
- * Avoid contact with skin and eye.

Wetting Agent (Atoll)

Atoll Wet PPR is a wetting agent specifically designed for paper impregnation processes. It improves the absorption of resins like urea-formaldehyde, melamine-formaldehyde, and mixed-type resins into the paper by reducing the surface tension of the resin. This increased absorption results in a more uniform distribution of the resin within the paper, enhancing the overall performance of the final product. Atoll Wet PPR can help reduce the amount of resin needed for the impregnation process by increasing its fluidity. It is also compatible with both types of baths commonly used in paper impregnation.

Benefits of Atoll Wet PPR:

- * **Improved Resin Absorption:** The wetting agent facilitates the absorption of resin by the paper, ensuring uniform and efficient impregnation.
- * **Enhanced Resin Utilization:** It helps in reducing the amount of resin required by decreasing the surface tension and increasing the fluidity of the resin, leading to better resin utilization.
- * **Increased Hardener Performance:** The product positively affects the performance of hardeners used in the impregnation process.
- * **No Negative Impact on Resin Utilization Time:** The wetting agent does not adversely affect the resin utilization time, ensuring efficient production processes.
- * **Versatility:** It is suitable for use in various types of paper impregnation processes.
- * **Easy Application:** The product is used directly without dilution, simplifying the application process.



Instructions for Use:

- The product is used directly without any dilution.
- Add the wetting agent to the mixture at a rate of 0.1-0.5% (by weight) at room temperature.
- Ensure the application is done at room temperature for optimal results.

Physical and Chemical Properties

- * Form: Liquid
- * Color: Transparent, colorless
- * Odor: Odorless, slight solvent odor
- * Ph Range: 6.00 - 8.00
- * Melting Point/Melting Range: -15°C to -5°C
- * Boiling Point/Boiling Range: 100°C to 105°C
- * Flash Point: 229°C
- * Density (20°C): 1.00 - 1.10 g/cm³

STORAGE & HANDLING

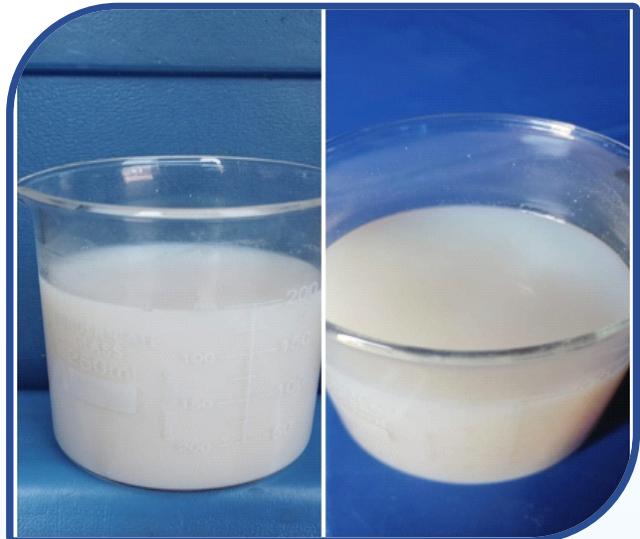
- * Keep away from open fire.
- * Requirements for storage areas and containers
- * Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- * Do not eat, drink or smoke when using the product.

Anti-blocking (Atoll)

The product Atoll Block PPR is an anti-blocking agent used in paper impregnation processes. It prevents laminated paper products from sticking together due to humidity in the environment while they are stacked or rolled up in the warehouse. Atoll Block PPR is an excellent internal anti-blocking agent for water-based resin systems. It does not change the chemical and physical properties of urea/melamine-formaldehyde resins and is completely water-based. It does not contain oils such as silicone and paraffin.

Benefits of Anti- blocking

- * **Prevents Sticking:** It effectively prevents laminated paper products from sticking together due to humidity in the warehouse. This is crucial for maintaining the quality and appearance of the paper products.
- * **Internal Anti-blocking:** It acts as an excellent internal anti-blocking agent for water-based resin systems. This means it works from within the paper, providing long-lasting protection against sticking.
- * **Preserves Resin Properties:** It does not alter the chemical and physical properties of urea/melamine- formaldehyde resins. This ensures that the resin's performance and quality remain intact.
- * **Water-Based:** It is completely water-based, making it environmentally friendly and easy to handle.
- * **Oil-Free:** It does not contain oils like silicone or paraffin, which can sometimes affect the paper's surface properties.



Instructions for Use:

- The product is used directly without any dilution.
- Add the anti-blocking agent to the mixture at a rate of 0.1-0.5% (by weight) according to the amount of resin.
- The specific usage and dosage may vary depending on the application and type of paper being impregnated

Physical and Chemical Properties

- * **Form:** Liquid
- * **Color:** White emulsion
- * **Odor:** Specific
- * **Ph Range:** 4.0 - 7.0
- * **Melting Point/Melting Range:** < 0°C
- * **Boiling Point/Boiling Range:** > 100°C
- * **Evaporation Rate:** Low
- * **Flammability:** Not flammable
- * **Density (20°C):** 0.95 - 1.05 g/cm³
- * **Dissolution:** Totally soluble in water

STORAGE & HANDLING

- * Keep away from open fire.
- * Requirements for storage areas and containers
- * Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

Gloss Enhancer (Atoll)

A gloss enhancer is a clear, colorless liquid added to resin mixtures—like melamine, urea, and water-based resins—during the paper-making process. It helps improve the shine and smoothness of the paper surface. This is especially useful for products like decorative paper and overlays, where a glossy finish is important for a high-quality look.

Benefits of Using Gloss Enhancers:

- * **Improved Aesthetics:** Gloss enhancers significantly enhance the visual appeal of paper products by increasing their surface gloss.
- * **Enhanced Print Quality:** Glossy surfaces can improve the clarity and vibrancy of printed images and text.
- * **Better Product Differentiation:** A glossy finish can help differentiate products in the market, making them more attractive to consumers.
- * **Versatility:** Atoll GIA is compatible with various resin systems, including melamine, urea, and water-based resins. This makes it a versatile additive that can be used in different paper impregnation applications.
- * **Ease of Use:** The product is easy to use as it can be added directly to the resin mixture without any dilution. This simplifies the application process and minimizes the risk of errors



Instructions for Use:

- The product is used directly without any dilution.
- Add the gloss enhancer to the mixture at a rate of 0.2% to 0.4% (by weight) at room temperature.
- Ensure the application is done at room temperature for optimal results.
- The specific usage and dosage may vary depending on the application and type of paper being impregnated.

Physical and Chemical Properties

- * Form: - liquid
- * Color: - colorless
- * Ph-range: - 6.00 – 8.00
- * Melting point / melting range: - 25°C - -15 °C
- * Boiling point / boiling range: - 100 – 225°C
- * Flash point: - 220 °C
- * Density (20 °C): - 1,00 - 1,10 g/cm³

STORAGE & HANDLING

- * Keep away from open fire.
- * Requirements for storage areas and containers.
- * Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- * Do not eat, drink or smoke when using the product.

Plate Cleaning Agent

The product Atoll Plate Sol is a Press Plate Cleaner. It is a water-based liquid product used for cleaning dust, resin, and chemical debris from press plates.

Plate Cleaning Procedure

* Step 1: Pre-Cleaning

Wash the plate with distilled water (battery water) before applying the plate cleaning agent.

* Step 2: Application

Apply a layer of the plate cleaning agent to the plate using a spanner or cloth.

* Step 3: Chemical Retention

To ensure optimal effectiveness, cover the plate with thin & clean plastic to maintain the moisture after applying the chemical.

* Step 4: Soaking

Leave the plate to soak for 4-6 hours, allowing the cleaning agent to take effect.

* Step 5: Rinsing

Wash the plate again with distilled water to remove any remaining cleaning agent residue.



Benefits of Plate Cleaning Agent

- 1. Removes Plate Poisoning:** Effectively eliminates contaminants and poisoning from the plate surface.
- 2. Enhances Shine and Gloss:** Improve the Shine and Gloss of the sheet. And improving its overall appearance.
- 3. Extends Plate Life:** Regular cleaning helps prolong the lifespan of the plate by preventing damage from corrosion and wear.
- 4. Reduces Pressing Time:** Cleaning the plate ensures a smoother printing process, reducing the time required for pressing and increasing productivity.

Physical and Chemical Properties

- * **Physical Condition:** Liquid
- * **Color:** Clear Colorless
- * **Smell:** Slight
- * **Ph:** 1.0-4.0
- * **Melting/Freezing:** <0°C
- * **Boiling Point:** >100°C
- * **Evaporation Rate:** Not Flammable
- * **Density (20°C):** 1.00-1.05 g/cm³
- * **Dissolution:** Totally soluble in water

STORAGE & HANDLING

- * Keep away from open fire.
- * Requirements for storage areas and containers
- * Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- * Do not eat, drink or smoke when using the product

HARDNER

Melamine-Formaldehyde Hardener (M F Hardner)

MFS2020 is a Melamine-Formaldehyde Hardener used in the paper impregnation process. It is a liquid, clear, and colorless substance that can be directly added to melamine formaldehyde resins. It is a latent hardener, meaning it has a long pot life and high curing activity. It helps in decreasing the pressing time, accelerating condensation in the drying oven, preventing sagging of resin, and maintaining a long pot life of resins containing curing agents.

Benefits of M F Hardner

- * **Decreased Pressing Time:** The hardener significantly reduces the pressing time, allowing for faster production cycles.
- * **Accelerated Drying:** It speeds up the condensation process in the drying oven, leading to shorter drying times.
- * **Prevents Sagging:** The hardener helps prevent sagging of the resin, ensuring a smooth and even coating.
- * **Maintains Pot Life:** It extends the pot life of resins containing curing agents, allowing for better planning and utilization.



Instructions for Use:

- Cooling the Resin: Cool the finished resin to the processing temperature.
- Adding Hardener: Add the hardener to the cooled resin and mix thoroughly.
- Adjusting Turbidity Time: Adjust the turbidity time of the resin mixture to 3-5 minutes at 100°C by adding the required quantity of hardener (approximately 0.20-0.50% relative to liquid resin).
- Using the Resin: Use the resin mixture for impregnating support materials like chipboards, fiberboards, and laminated plastic sheets.
- Adding Curing Agent: It is recommended to add a curing agent to the resin shortly before a new batch is required for impregnation.

Physical and Chemical Properties

- * Form: Liquid
- * Color: Transparent, colorless to slightly beige
- * Odor: Odorless
- * Ph Range: 7.00-8.50
- * Melting Point/Melting Range: 35-50°C
- * Boiling Point/Boiling Range: 100-105°C
- * Density (20°C): 1.10-1.30 g/cm³

STORAGE & HANDLING

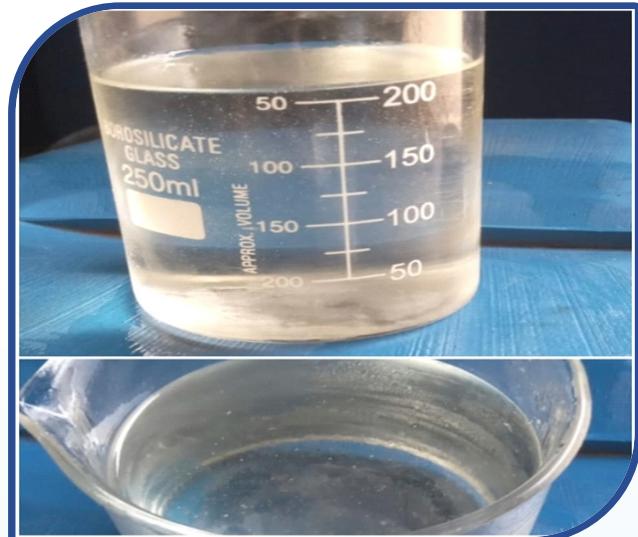
- * Keep away from open fire.
- * Requirements for storage areas and containers
- * Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- * Do not eat, drink or smoke when using the product

Urea-Formaldehyde Hardener (UF Hardner)

A Urea-Formaldehyde Hardener, like Atoll UFS1010, is a chemical additive used in the paper impregnation process. It is specifically designed to work with urea-formaldehyde resins. Atoll UFS1010 is a latent hardener, meaning it has a long pot life and high curing activity. It helps in decreasing the pressing time, accelerating condensation in the drying oven, preventing sagging of resin, and maintaining a long pot life of resins containing curing agents.

Benefits of UFS1010:

- * **Long Pot Life:** The hardener offers a long pot life, allowing for extended working time with the resin before it starts to cure. This reduces waste and improves efficiency in the manufacturing process.
- * **High Curing Activity:** It exhibits high curing activity, ensuring rapid and efficient curing of the resin at elevated temperatures. This leads to shorter curing times and increased productivity.
- * **Reduced Pressing Time:** The hardener helps in significantly reducing the pressing time required for the impregnated paper, typically down to 20 seconds at 170°C. This translates to faster production cycles and higher output.
- * **Accelerated Condensation:** It promotes accelerated condensation in the drying oven, leading to faster drying and reduced energy consumption.
- * **No Sagging of Resin:** The hardener prevents sagging of the resin during the curing process, ensuring a uniform and smooth coating on the paper. Long Pot Life of Resins with Curing Agents: Even in the presence of curing agents, the hardener maintains a long pot life of up to 24 hours, providing flexibility in the manufacturing process.



Instructions for Use:

- Cooling the Resin: Cool the finished resin to its processing temperature.
- Adding Hardener: Add the hardener to the cooled resin.
- Mixing: Mix the hardener and resin thoroughly to ensure uniform distribution.
- Adjusting Turbidity Time: Adjust the turbidity time of the resin mixture to 3-5 minutes at 100°C by adding the required quantity of hardener. This is typically around 0.5% (relative to liquid resin).
- Immediate Use: Use the resin mixture immediately after adding the hardener as it starts the curing process.

Physical and Chemical Properties

- * Form: Liquid
- * Color: Yellowish
- * Ph Range: 6.00-8.00
- * Melting Point/Melting Range: -5°C to 0°C
- * Boiling Point/Boiling Range: 100-105°C
- * Density (20°C): 1.30-1.50 g/cm³

STORAGE & HANDLING

- * Keep away from open fire.
- * Requirements for storage areas and containers
- * Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- * Do not eat, drink or smoke when using the product.

DEFORMER- (ANTI-FOAMING)

Deformer is a type of antifoaming agent, also known as a defoamer or foam suppressant. Its primary function is to prevent or reduce foam formation in various industrial processes. Deformer is specifically designed for paper impregnation processes. Paper impregnation involves treating paper with chemicals or resins to enhance its properties, such as water resistance, strength, or durability. Deformer is used to control foam formation during this process.

Benefits of Deformer

***Efficient foam control:** Deformer effectively prevents or reduces foam formation, ensuring a smoother and more efficient paper impregnation process.

***Compatibility with water-based resin systems:**

Deformer can be directly added to any water-based resin system, making it a convenient and versatile solution.

***Improved product quality:** By controlling foam formation, Deformer helps to prevent defects and irregularities in the final paper product.



Physical and Chemical Properties

*** Appearance:** Milky Emulsion

*** Viscosity at 25°C:** 1035 cps

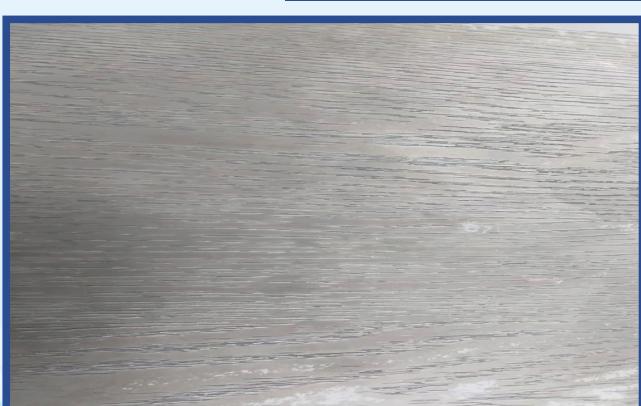
*** Ph Value:** 6.50

*** Specific Gravity:** 1.0002

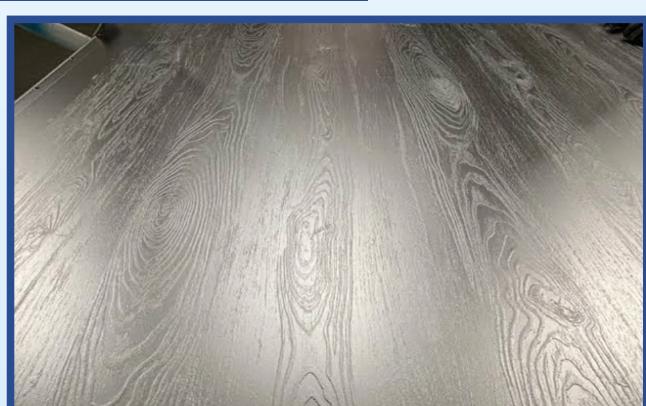
STORAGE & HANDLING

- * Keep away from open fire.
- * Requirements for storage areas and containers
- * Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- * Do not eat, drink or smoke when using the product.

EFFECT OF LOCAL CHEMICAL ON PLATES



Damaged Plate



Original Plate



Warehouse Address

“ PHOENIX ADDITIVES CHEMICALS ”

**SHREE GANESH WAREHOUSE , GODOWN NO.566,
BHOIR COMPOND, NEAR PADAMAVATI HOTEL,
VILLAGE- VAL, BHIWANDI-421302.**

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