



**MÜNZING FENTAK®**  
ADDITIVE SOLUTIONS FOR  
THE WOOD INDUSTRY



# MÜNZING is a highly regarded, privately owned specialty additive company with headquarters in Abstatt, Germany.

We have a presence in over 40 countries and are a technology driven organization with an extensive staff of highly experienced R&D and technical service personnel in Europe, the Americas and Australia. Our manufacturing plants in Germany, USA, Australia and Asia have broad synthesis and formulation capabilities in order to best serve our global customer base.

We are committed to creating value and improving our customers' formulations with our complete range of specialty additives. These additives, which include defoamers, dispersants, rheology modifiers, emulsifiers, wetting and leveling agents, micronized and coated waxes as well as wax dispersions and emulsions have achieved worldwide recognition for their performance, quality and technical innovation.

The technical mission of MÜNZING is to solve coatings formulation problems. We offer state-of-the-art technical service testing to all customers, regardless of their business size, based on our broad range of additives chemistries.



## MÜNZING FENTAK® PROCESSING ADDITIVES...

...meets customers' specific application needs with a total solutions approach of both products and services. We are committed to helping our customers achieve their goals. That's why MÜNZING FENTAK® range of additives offers a wide range of solutions. MÜNZING's materials can be found in all kinds of products manufactured by different branches of the forest products industry.

But why do so many of our customers rely upon MÜNZING to meet their specific requirements? The answer is quite simple: as a total solutions provider MÜNZING offers a complete set of unique, innovative and cost-effective products. This does not only apply to MÜNZING FENTAK® products, but to all additives manufactured by MÜNZING. Furthermore, with our extensive research and development capabilities and applications know-how, we are uniquely able to work in partnership with customers to co-develop better products and systems. And, MÜNZING's worldwide production network facilitates assured supply and prompt delivery wherever our customers do business.

**Please contact us for more information on MÜNZING's wide additives products range.**





**Our Technical Team**

MÜNZING FENTAK® PROCESSING ADDITIVES technical strength lies in its people. Our technical staff has a great depth of experience in the laminating and wood panels industries.

We are dedicated to developing the most effective additive systems for our customers.



**Our Laboratory**

All MÜNZING manufacturing sites have fully equipped laboratories. We have a range of laboratory presses that allow us to test our products under conditions that will accurately reflect their performance in full scale manufacturing processes.

Our laboratories are also equipped with specialized apparatus for flow and blocking testing of impregnated paper. We thoroughly document all our practices and procedures and routinely update them to reflect our accumulation of knowledge of our customers' products and their evolving needs.

**Available test procedures:**

- » Viscosity
- » Stroke cure
- » Post forming
- » Flow / blocking
- » Gel testing
- » Lab pressing

**The MÜNZING FENTAK®  
PROCESSING ADDITIVES  
is one of the world's specialist  
in Additive Systems for ...**

- » Low pressure melamine
- » High pressure laminate
- » Phenolic resin impregnators
- » Specialized surface coatings for molding and flat board
- » MDF, particle board and engineered wood

**FENTAK® –  
Range of Products**

- » Catalysts (Hardener)
- » Wetting Agents
- » Release Agents
- » Back Releases (Sodium Alginate Release)
- » Pigment Dispersions
- » Abrasives Dispersions
- » Plasticizer
- » Plate Cleaner
- » Anti Blocking Agents
- » Liquid Dyes
- » Edge Sealants
- » Primers
- » Putties

# Medium Density Fiberboard, Particle Board

## FENTAK® UR Series of Board Spray Release Agents

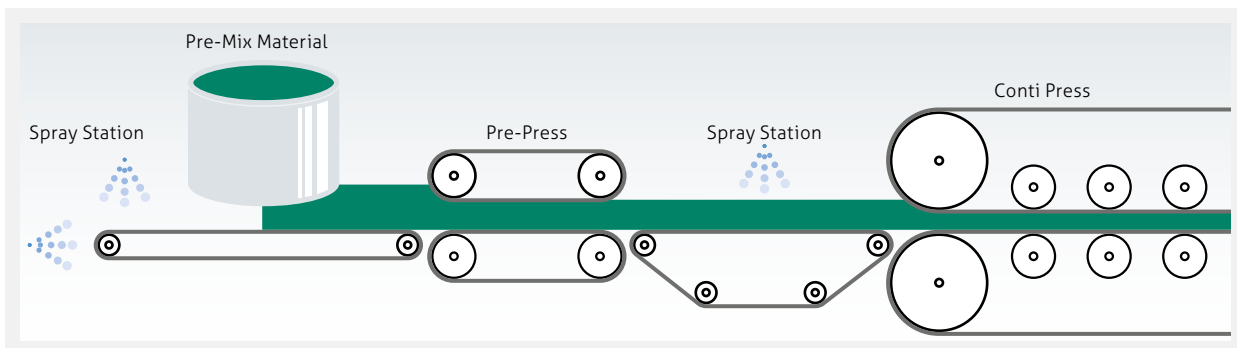
Our modified water based release agent has been specifically formulated to be used on Rotodamping Applicator machines. These machines give a very even coverage of material onto fiber mats but have limitations which prevent the use of a wide variety of conventional spray materials. The problems include excessive foam generation, bacterial growth and line clogging. The UR series release agents eliminate these problems and further provides excellent release and improvement in surface quality. The faster heat transfer to the core of the panel caused by the extra steam generation at the surface also allows reduced press times. It also prevents build up of resin / fibrous material on the press die or belt which causes an uneven pressed surface and can slow down pressing times by acting as an insulator.

## FENTAK® CT Series of Catalysts

The particle board catalyst is designed specifically as a core layer catalyst for particle board resins to increase production rate. It is faster in reactivity than standard Ammonium Chloride or Sulphate Solutions and the high solids content allows lower core moisture contents which permits higher press temperatures and faster press times to be achieved without a reduction in board properties. It is suitable for use with UF, MUF and MUPF resins and works well with E0 and E1 resins.

## FENTAK® FC Series of Organic Liquid Dyes

We have a wide range of aqueous solutions of organic dyes that are designed specifically for addition to particle board resin binder systems and in dilute form to MDF fiber mats for identification purposes. Our dyes are stable in both the high temperature and acidic environment encountered in board pressing operations. They have no detrimental effect on board properties. Also, because they are UV stable, our dyes are being widely used in laminates such as High Pressure Compact Laminates.



Market	Applications	Options
<b>Wood Panels – Laminating</b>	High Pressure Laminate (HPL, Compact Laminate) Low Pressure Laminate (LPM, MFC) Phenolic Laminates (PSC, MDO, Glue-film etc.)	» Paper (Decorative, Kraft, specialist) » Resin (UF, MF, MUF, PF, DAP) » Additives (FENTAK® products)
<b>Wood Panels – Board Products</b>	Engineered Wood Panels » Plywood » Oriented Strand Board (OSB) » Laminated Veneer Lumber (LVL)	
	Reconstituted Wood Panels » Particleboard (Chipboard) » Fiberboard » MDF » HDF	Specialized Additives » Release Agents » Fungicides
	» Moldings » Door Skins	Specialized Additives » Release Agents » Fungicides » Termiticides » Fire Retardants » Conductivity Additives » Bleaching Agents » Release Agents » Primers » Surface Sprays / Sealants

# Laminating

## FENTAK® CT Series of Hardeners

MF, UF and MUF resins are too slowly cured at the temperatures employed in the impregnator ovens. A hardener must be added of the correct type and concentration to speed up the reaction to give the required degree of cure for the temperatures, speed and machine. Our CT series of hardeners are designed to do just this.

## FENTAK® FW Series of Wetting Agents

Our FW series of wetting agents simply speed up the wetting and penetration of resin into the paper. Some papers wet out rapidly and do not require any additive whilst others do not. Generally a wetting agent is added to all first stage resin formulations for simplicity, and to ensure that application rollers are completely wetted out. Recent environmental issues concerning nonyl phenol ethoxylates have led to the development of products, which are free of these compounds. These new FENTAK® FW products represent the latest technology in wetting agents and have already experienced strong demand in Europe and Scandinavia.

## FENTAK®AC Series of Plasticizer

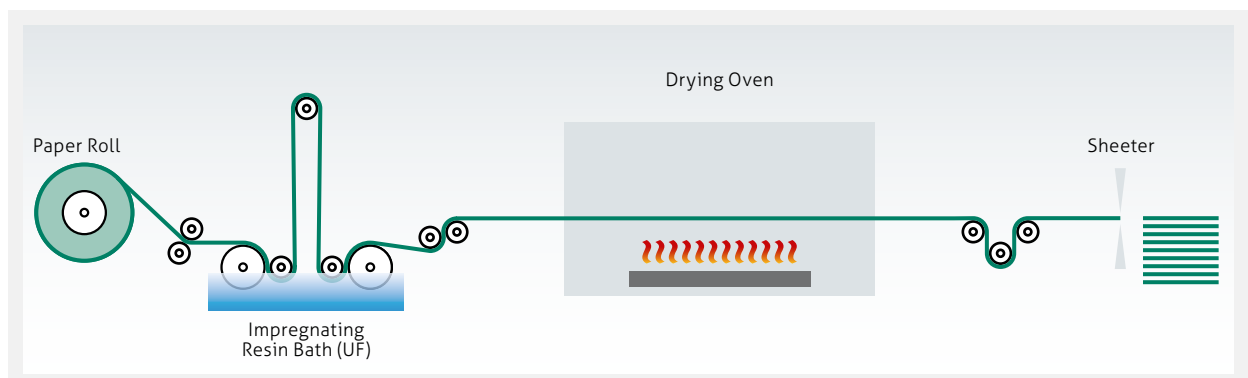
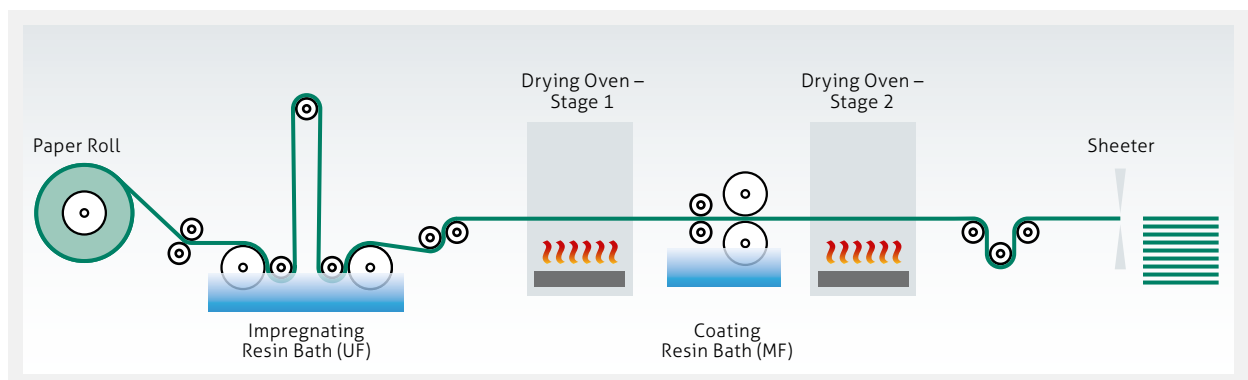
Added to resins to improve post-forming performance or prepreg flexibility, and to reduce scrap caused by broken papers.

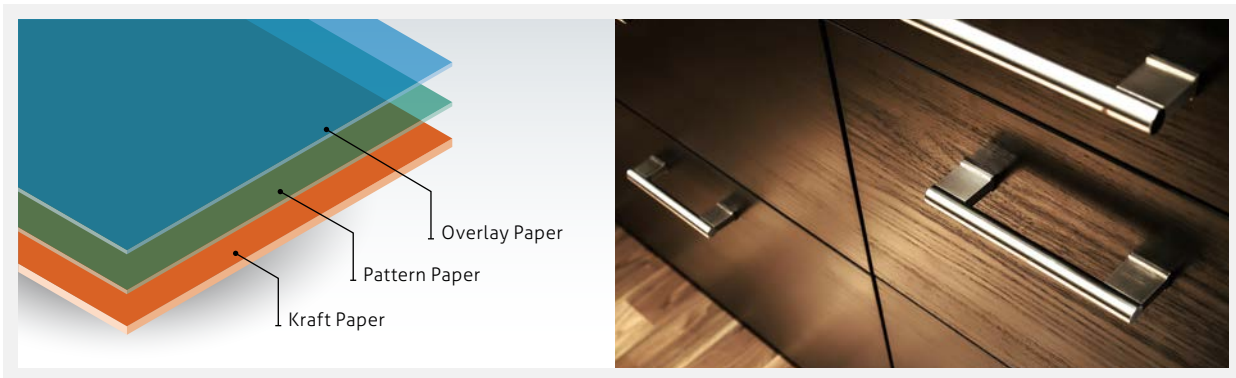
## FENTAK®MR Series of Release / Levelling Agents

Our FENTAK® MR series of release / levelling agents are required to ensure that the melamine resin does not stick to the press plates during the pressing process, it can also substantially affect prepreg smoothness, dusting, paper slip, and blocking. The levelling agent is required to provide a smooth resin film on the paper free of surface defects such as fish eyes and dry spots.

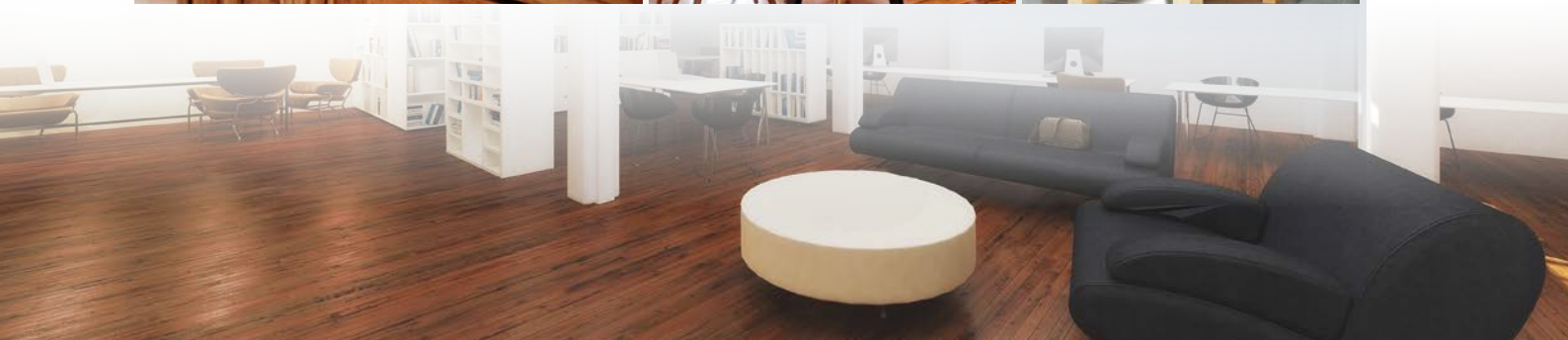
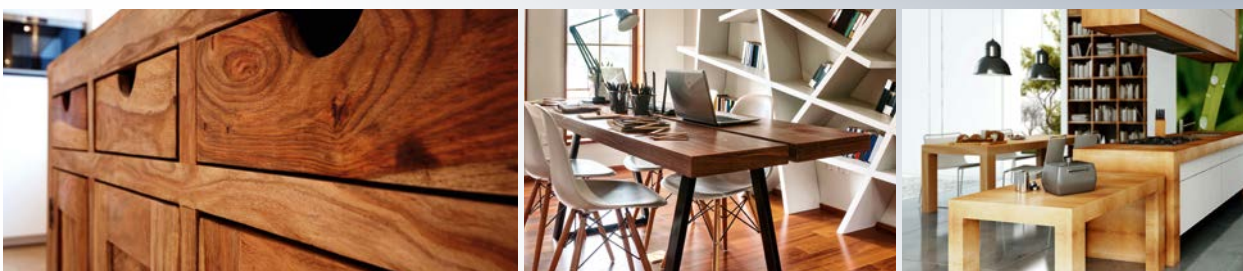
## FENTAK® PG Series of Pigment Dispersions

Our FENTAK® PG series of pigment dispersions are designed to lower cost by allowing our customer to use our dispersion on lighter weight white papers and achieve an equivalent appearance to the heavier weight paper. We also have a wide range of other pigment dispersions for various niche applications such as addition to Phenolic Resins making Shuttering Board or Compact Laminates.





Product	Industry					
	MDF	Particle Board	LPM	HPL	PSF	Others
Board – Internal Release	●	●				
Board – External Release	●	●				
Urea Release			●	●		
Melamine Release			●	●		
Urea Catalyst			●			
Melamine Catalyst			●	●		
Phenolic Release					●	
Anti Block			●	●	●	
Wetting Agent	●	●	●	●	●	
Flow Promoter			●	●		
Pigments	●	●	●	●	●	
Dye	●	●		●	●	
Primer	●					●
Sealants						●
Putty						●





## Contact

**MÜNZING CHEMIE GmbH**

Münzingstrasse 2  
74232 Abstatt  
GERMANY  
Phone +49 7131 987-0  
Fax +49 7131 987-125  
E-Mail [info@munzing.com](mailto:info@munzing.com)

**MÜNZING CHEMIE Iberia S.A.U.**

Carrer Temple, 15 1° derecha  
ES08911 Badalona (Barcelona)  
SPAIN  
Phone +34 93 5722075  
Fax +34 93 5722683  
E-Mail [iberia@munzing.com](mailto:iberia@munzing.com)

**MÜNZING Malaysia SDN BHD**

C22, Susur Lencongan Timur Kanan  
Kawasan Perindustrian Cendana  
08000 Sungai Petani  
Kedah  
MALAYSIA  
Phone +604 42 33 388  
E-Mail [malaysia@munzing.com](mailto:malaysia@munzing.com)

**MÜNZING**

**Micro Technologies GmbH**

Dr.-Bergius-Strasse 16-24  
06729 Elsteraue  
GERMANY  
Phone +49 3441 829 10-22  
Fax +49 3441 829 10-20  
E-Mail [ceretan@munzing.com](mailto:ceretan@munzing.com)

**MÜNZING North America**

1455 Broad Street, Suite #3  
Bloomfield  
NJ 07003-3003  
USA  
Phone +1 973 279-1306  
Toll Free +1 800 524-0055  
Fax +1 973 338-0420  
E-Mail [info@munzing.us](mailto:info@munzing.us)

**MÜNZING Mumbai Pvt. Ltd.**

Raheja Chambers 2nd Floor,  
233 DBS Business Center,  
Nariman Point  
Mumbai 400021  
INDIA  
Phone +91 982 0853126  
E-Mail [india@munzing.com](mailto:india@munzing.com)

**MÜNZING**

**International S.a.r.L.**

23, rue Aldringen  
L-1118 LUXEMBOURG  
Phone +352 2627 1520  
Fax +352 2627 1530  
E-Mail [benelux@munzing.com](mailto:benelux@munzing.com)

**MÜNZING Shanghai Co.Ltd.**

Rm 1701B-1703A  
No. 20, Lane 1228, ZRT Tower  
Jiangchang Rd.  
Shanghai 200072  
P.R. CHINA  
Phone +86 21 6149 1561  
Fax +86 21 6149 1563  
E-Mail [info@munzing.cn](mailto:info@munzing.cn)

**MÜNZING Australia Pty. Ltd.**

3 Warringah Close  
2250 Somersby  
NSW  
AUSTRALIA  
Phone +61 2 4340 7800  
E-Mail [australia@munzing.com](mailto:australia@munzing.com)

Visit our website for more information...  
for international representatives...

[www.munzing.com](http://www.munzing.com)

