IN THIS ISSUE:

ACADEMY TIPS HMPUR VS PO

IN FOCUS

New TAKA products

THE CUSTOMER'S VOICE Stilcurvi

N°09 | October 2021

LOOKING AROUND

New developments in the world of POLYURETHANE ADHESIVES

The furniture market is constantly low as 90°C, thus reducing the contact evolving. More and more materials other temperature with the coating head and than wood are being used, but with very avoiding the formation of bubbles and similar finishes from an aesthetic point creases.

Melt Reactive Polyurethanes (HMPUR) mm for the application of films for exterior is the 2308.38P. This adhesive was door panels. Due to its low viscosity, it developed with raw materials produced is very well suited for application at low entirely within TAKA and specially temperatures and allows good bonding formulated to give this product very even with poorly heated panels. 1308.18 precise yet versatile characteristics for is used in the gluing of exterior foils. In the production of MDF and chipboard addition, it provides weather resistance profiles and for flat or soft-formed that meets the requirements of RAL GZ 716.

2308.38P is suitable for bonding various types of foil such as paper, PVC, PET and PP even at low substrate temperatures. One of the more recently used films is Polypropylene (PP), with a very low thicknesses of 0.1-0.15 mm that is very sensitive to temperature. This is one of the reasons why TAKA developed the AN EMAIL TO:

The 1308.18 is also used in the production TAKA's new addition to the family of Hot of flat panels with glue heads of up to 1350





TO FIND OUT MORE ABOUT 2308.38P, 1308.18 OR ANY OTHER TAKA ADHESIVE SEND product 1308.18, which can be applied as INFO@TAKA.IT



Matteo: 20 years of growth



This past July 16th, we celebrated the Over the years, he has always shown that words still hold true today: "WPR is my this road will continue to take me very 20th anniversary of our Technical Support he is up to all challenges, contributing life, I grew up here, I came here in my far!" We are proud to have people like Matteo, a key resource in our organisation, market point of reference, demonstrating first work experience and I'm still here continuing to grow together!

after WPR was founded. During these two your work. distinguishes us.

W.P.R. Srl Unipersonale Via Indipendenza, 10

31027 Spresiano (TV) Italy

Tel: +39 0422 911849

Fax: +39 0422 911292

Mail: info@wpr.it

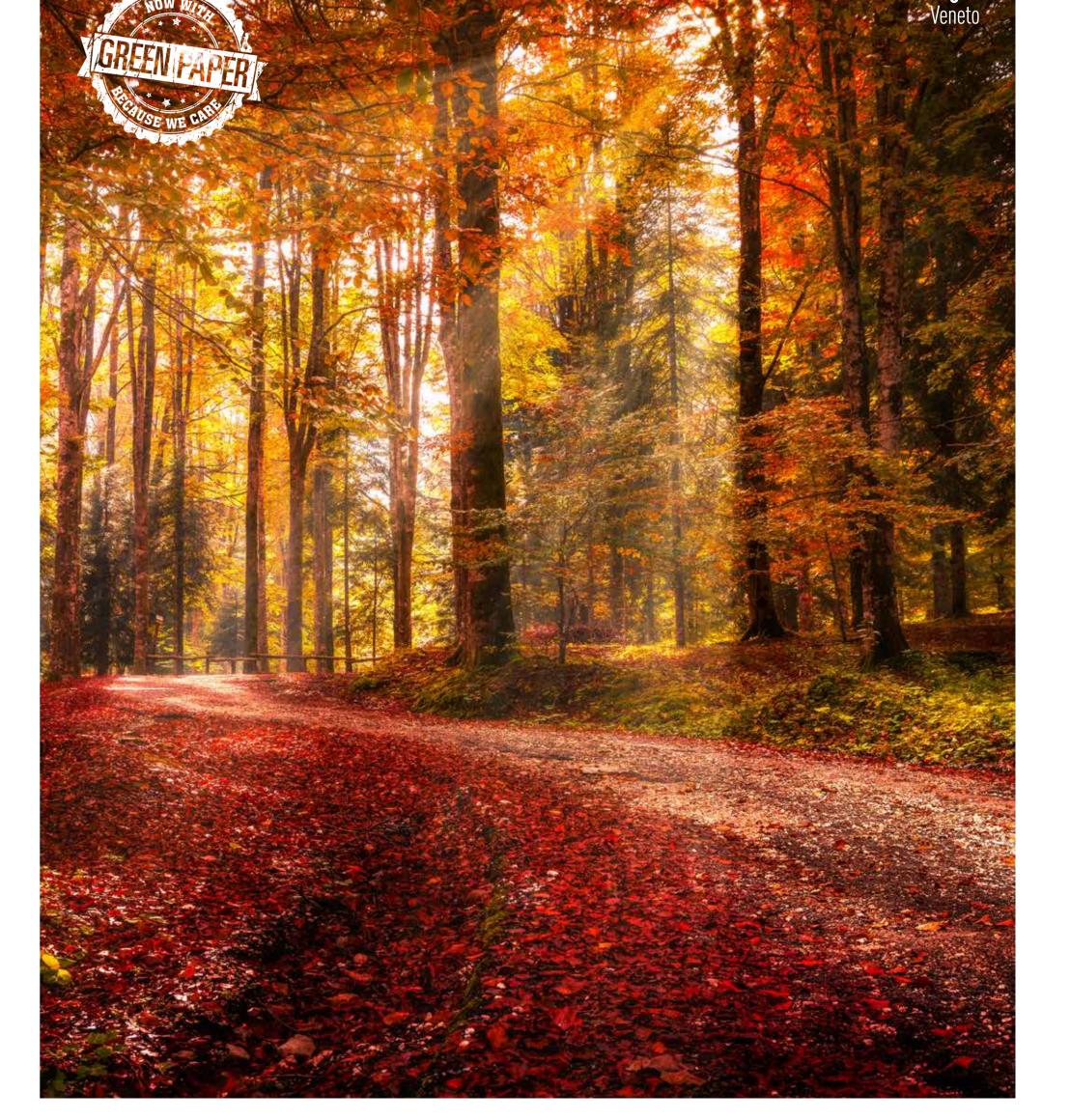
ideas, time and sacrifice to make WPR the twenties and now I'm over 40. It was my Matteo in our team and look forward to began his career in 2001 just two years that it is possible to make a passion of because I've always believed in it. With all the difficulties that there are, with decades, he has witnessed the growth, We asked him a few years ago what it all the challenges and trials that I have change and technological innovation that means to him to be part of the WPR- experienced, I continue to believe in it, to TAKA family, and he confirms that his do my job with passion and I am sure that

TAKA® Srl

Via dell'Industria, 4 36060 Pianezze (VI) Italy Tel: +39 0424 411166 Fax: +39 0424 411727 Mail: info@taka.it







Nobilitation and environmental awareness

Wood: Nature's miracle

strength characteristics and has always polyurethane adhesives is gaining ground important support for its customers'

As in the rest of the world, wood was widely used in Italy as a raw material. The use of PUR allows the application of ACADEMY is unparalleled, as we for the construction of houses and other a wide variety of finishes while reducing teach the application know-how that buildings until the 1920s.

It was later replaced by brick and concrete. with a far lower environmental impact than Today it is regaining its importance, other types of adhesives and technologies. thanks to growing environmental awareness.

processes solid wood, chipboard, , plywood, moulded wood, OSB and materials.

Trendy decors that increase the hardness, Thanks to vertical integration, TAKA the furniture world.

been an important construction material. over varnishing and outdated wrapping projects.

processing times and consequently the is fundamental for the success of the space required for processing and storage, finished product

In fact, with PUR adhesives, emissions into the atmosphere are reduced to zero Currently, the furniture industry compared to varnishing, which emits

MDF. Foils with finishes that faithfully In addition, the use of HMPUR adhesives reproduce the texture of wood are used has totally eliminated the harmful fumes to laminate various types of wood-based of the old urea-formaldehyde-based adhesives

scratch and solvent resistance of the is able to effectively develop types of surface, make the final product ideal for adhesives that can adapt to the constant evolution of the materials used in the production of profiles and foiled panels, Wood is a natural product with excellent Foiling profiles and panels with while its research laboratories provide

The contribution of the WPR-TAKA

Giorgio Costenaro



GIORGIO COSTENARO PRESIDENT TAKA

ACADEMY TIPS HMPUR vs. PO

Which is best? Bonding with hot melt Polyurethane (HMPUR) or Polyolefin (PO)?

and machines has evolved remarkably water and temperature resistance. over the last years.

What remains crucial is the choice of materials intended for the production of the hot melt adhesive: Physical bonding kitchen and bathroom furniture but are Certain raw materials in POs can avoids the obvious deterioration of the (polyolefin -or EVA)(Thermoplastic) or also very important for transportation burn quickly causing blockages in the final product. physical + chemical bonding (HMPUR/ in containers where temperatures of application systems. Thermoset)?

All materials characteristics. Polyolefin (PO) is an materials that can be processed. adhesive where bonding only takes application and bonding by cooling).

activates again (Thermoplastic).

Hot melt polyurethane adhesive (HMPUR), on the other hand, bonds in two steps: the first is physical (melting of the adhesive, application and the adhesion occurs by the reduction of temperature) and then the second phase begins after processing, where the chemical crosslinking between the materials and the adhesive takes place.

Today, manufacturing a profile or panel (Thermoset) This chemical reaction gives is quite easy as the technology of foils the laminated profile a very high level of

> These two aspects are essential for above 70°C and humidity can be reached.

place physically (melting of the glue, HMPUR adhesives are also preferable in In the production of interior doors, terms of sustainability and energy savings HMPUR adhesives have made it possible as they are used at low temperatures to qualitatively raise the strength of When heating the profile, the glue (110-140°C) compared to PO which has jambs and architraves. The photo shows to be applied at 160-200°C.



an example of a door jamb glued with PO adhesives. The use of HMPUR adhesives



Today, thanks to the new generation of Another advantage of HMPUR over PO In addition, the application coat weights equipment (melters, glue heads, etc.), have different is the wide range of foils and substrate of HMPUR are 30-50% lower than the which have been developed to use any kind of adhesive, hot melt polyurethane glue is still the most versatile adhesive.

> If you want to know more about WPR-TAKA's HMPUR adhesives or for information on other applications, please contact the WPR-TAKA Academy at academy@wprtaka.it



TO DISCOVER THE MANY COURSES AND TRAINING ACTIVITIES OFFERED BY OUR ACADEMY, PLEASE INQUIRE BY E-MAIL AT ACADEMY@WPRTAKA.IT

THE CUSTOMER'S VOICE Stilcurvi



CLAUDIO ZAMAI OWNER



Stilcurvi srl was founded in 1986 as a company is versatility. company dedicated to the production of for the furniture industry.

3 production units, for a total of about veneer to melamine. 75,000 square metres of covered surface

the company to expand its product range | are essential characteristics for a glue | market, it is now essential for every and invest in new technology.

at the beginning of the 2000s, equipped raw materials: in all this WPR-TAKA only in this way is it possible to guarantee with two automated defect detection have always proved to be up to our its customers high quality standards and systems, which is highly appreciated requirements." by the most demanding customers, or the calendaring line which allows the In addition, a partnership such as the one To find out more about Stilcurvi's wide range of different processes.

semi-finished curved wooden products. In other words, the ability to offer Moreover, the close relationship customers a varied commercial established over time with WPR-TAKA proposition, ranging from UV varnished makes it possible to improve knowledge Today it has about 180 employees and to calendared polymeric foils, from of the adhesive and the bonding process

Claudio Zamai, owner of Stilcurvi, added: "TAKA adhesives offer us reliability In conclusion Zamai states that: "In an Changing market trends have prompted and consistency in any situation, which increasingly competitive and demanding that can only be achieved by means of company to count on real partners for well-planned procurement processes the supply of the most strategic raw For example, a UV varnishing line acquired and meticulous control of incoming materials for the production processes:

company to vertically integrate upstream between Stilcurvi and WPR-TAKA brings range of products and processes, please as well, thus becoming completely tangible benefits to both companies: autonomous in the production of a wide while Stilcurvi has an absolute need for a top-quality adhesive, WPR-TAKA also needs feedback from customers in the The distinguishing feature of this field in order to continue moving forward

with their research and development.

day after day, thanks to the valuable assistance and advice of their technicians.

continuity of supply".

visit their website:

www.stilcurvi.it



WINDOOR

of interior doors in Poland.

The company operates from a modern As part of these efforts to minimise in the manufacturing process.

The commitment and mission of Stanisław Redestowicz, owner of Windoor, is to use

generates a higher level of scrap.

environmentally aspects.

production base in Radom and their production waste (and therefore In return for our trust we received: success is based on the use of high environmental impact), Windoor supplies • Efficient installation and start-up of the optimal efficiency of the process. quality materials and attention to detail the market with WPC panels (Wood-Plastic Composite), a product that wood with the functionality of a polymer.

high quality raw materials for production, Growing market demands and limitations wrapping process

increases labour costs and always led Windoor to purchase a new foiling

defines Windoor as After evaluating several options, they quality of the foiling is not just a question responsible decided on WPR, which offered the best WINDOOR has been on the market since manufacturer and facilitates their technical solutions and the broadest 2003 and is one of the leading producers initiatives on ecological protection experience of the wrapping process. The type and quality of the applied glue an excellent choice.

- the machine,
- Excellent machine operation,
- combines the beauty and strength of Very easy set-up and tooling Windoor, the best results were obtained
 - High quality and stability of the

as the use of substandard components in the efficiency of the finishing process • Very good contact and fast technical support in problem solving."

Of course (explains Redestowicz), the

Redestowicz adds: "Today we know it was also have a significant influence on the end product, on the stable operation of the equipment without the need for constant adjustments, and therefore on

> Among the many products tested by by the HMPUR adhesives offered by TAKA.

> Stanisław Redestowicz concludes by stating that: "Without quick reactions to our - often changing - requirements adequate technical support and professional advice as offered by WPR-TAKA, this success would not have been possible.'

> > If you would like to know more about Windoor's interior doors please visit their website

> > > www.windoor.pl