

Journal

16 2021

Information from
Worlée-Chemie GmbH



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Product development
WorléeCure VP 2285

Project climate neutral
What has happened so far
and how will it continue?

Vencorex
More about
Tolonate™ X F 450

Meeting Friends
When experts
get together

Dear Customers, Partners
and Friends,

The third half of the year is already over and we would like to take this opportunity to introduce one new product development. WorléeCure VP 2285 finds application in construction chemistry. In addition, the special online seminar series live@Worlée meets Friends, which we hosted at the beginning of September, featured 11 exciting presentations on current developments and trends in the paints and coatings industry.

We also have news to announce in the area of sustainability: The publication of our third sustainability report is imminent, the Chemie-Radler were on tour again, and the project "Ways to a climate-neutral company" is picking up full speed.

We hope you enjoy reading the 16th issue of the Worlée Journal!

Your sincerely
Joachim Freude,
Managing Director



WorléeCure VP 2285

The amine hardener with accelerating effect

The coating industry has been working with epoxy resin systems for many years. Due to their wide range of applications, they are still very popular today. In recent years, the performance and also the sustainability of these coatings have been constantly improved, also through the development of waterborne systems with good properties.

In line with this trend, we have developed an aqueous hardener with an interesting property profile: WorléeCure VP 2285 is an aqueous polymer adduct hardener with a solid content of 80%.

This hardener is compatible with both liquid resins and solid resin dispersions and exhibits emulsifying properties.

In coatings, WorléeCure VP 2285 brings very good through-curing properties that persist even in high film thicknesses.

In addition, the low shrinkage is another advantage.

WorléeCure VP 2285 has a gel time at 25°C of 16 minutes. This makes it quite interesting for machine spray application of industrial soils. Because of this gel time, it can also be combined with other amine hardeners as an accelerating component.

Our construction chemicals team has developed various guide formulations with WorléeCure VP 2285.

Among them is an antistatic floor coating based on a solid resin dispersion. In addition, there are guide formulations for screed mortars and sealers.

We would be pleased to provide you with all guide formulations as well as samples and product information. Please contact us!

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Greetings from Italy!

1. How long have you been working for Worlée?

I have been working for Worlée for more than 5 years. I started as a sales manager in Kar Kimya in 2016, where I was responsible for Worlée's sales activities. Kar Kimya has been representing Worlée-Chemie in Turkey since 1990. In 2019, I transferred to Worlée Italy where I have continued my career with Worlée as a sales manager in the Italian market.

2. Are there any special features for the Italian market?

Italy is the third largest paints and coatings market in Europe – by volume and value. Worlée has a strong reputation in the Italian market and customers choose Worlée as their go-to brand. There are lots of global coating companies that are operating in Italy with which we collaborate as partners and create innovative and environmentally friendly solutions. We are especially active and a leader in the area of additives for powder coating. Additionally, I would like to focus on and further expand the liquid coating business.

My Italian customers are competent, educated and cheerful. They know what they are doing. I like their approach and I feel lucky to have such a customer profile.

3. What are your tasks in your position?

My primary objective is to identify new business opportunities: I develop new customer relationships and new products for existing customers. This aligns with one of Worlée's core values – to offer tailor-made solutions that address our customers' needs.

To give you more details, here are some examples of my tasks I handle on a day-to-day basis:

- Developing relationships with key customer accounts
- Attending face-to-face or virtual meetings with clients
- Providing technical advice and commercial info
- Generating leads
- Supporting marketing activities
- Forecasting of anticipated sales

4. What have you done so far or what training have you completed?

I was born and raised in Izmir. Izmir is the third largest city, located in western Turkey. I owe my stance, joy, education, and world-view to this city.

I studied Chemistry at Middle East Technical University in Ankara, Turkey. METU is one of the important milestones in my life. In addition to my B.S. in chemistry, I earned a vision, which let me feel self-confident for life. Afterwards I did an MBA.

I started business life in 2003 as an R&D engineer in a printing ink manufacturing company called DYO Printing Inks in Izmir, where I learned how to formulate a liquid or paste ink and built relationships with all the raw material suppliers. This foundation still helps me better understand customer needs, questions and inquiries to this day. During these years I have learned English, German, Spanish and now I am learning Italian. I have completed a tremendous number of courses and trainings.

My favourite one was Goethe-Institut where I learned German and met a lot of people from all over the world, broadening my horizons.

5. What has been your best experience at Worlée so far?

Like for everyone, the pandemic is the most significant experience in my life so far and I feel lucky to get through this with Worlée. When the pandemic first started, I had been in Italy only for 4 months. During this period, Worlée cared for all of us and responded quickly in terms of business continuity and health precautions.

In these times of uncertainty, there is a big need for leaders to meet the new challenges that require them to move fast, stay curious and humble and to seek views of their teams. Having said that, I would like to thank to my boss Stefan Mansel for being thoughtful, available and considerate. I am also grateful for having amazing colleagues like Caroline Matthiesen and Stefano Morpurgo.



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Outstanding flexibility for demanding areas of application.

Tolonate™ X F 450 is the newest product in a line of special aliphatic polyisocyanate hardeners developed by Vencorex to provide coatings with improved elasticity as well as superior hardness retention.

PHYSICAL PROPERTIES	TOLONATE™ X F 450
NCO (%)	16.3
Viscosity at 25 °C (mPa.s)	450
Solid content (%)	100

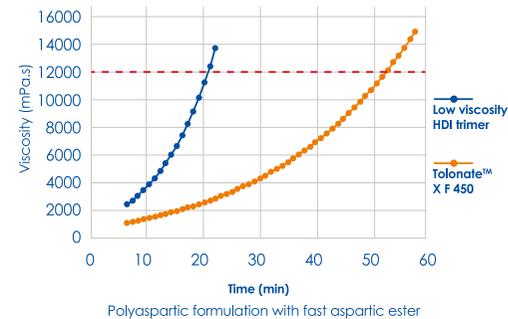
Tolonate™ X F 450 is a low viscosity, solvent-free aliphatic polyisocyanate based on hexamethylene diisocyanate (HDI). As a crosslinker for two-component polyurethane and polyurea formulations, it yields excellent qualities such as high elongation and good hardness development together with outstanding resistance to abrasion, solvents and chemicals.



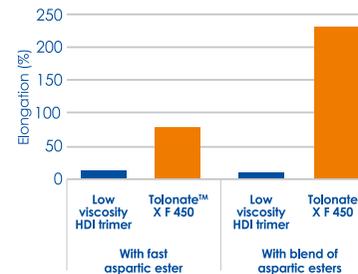
In polyaspartic systems, longer working times and a very good balance between flexibility and hardness may be achieved under identical drying conditions as compared to standard systems.

This product is thus particularly suitable for fast-drying formulations such as polyaspartics and aliphatic polyureas, as it effectively overcomes their brittleness and allows for longer pot life.

Pot-life



Elongation at break



Tolonate™ X F 450 is a highly versatile polyisocyanate that can be used alone or in combination with other hardeners to effectively manage hardening time and flexibility in formulations.

Tolonate™ X F 450 yields outstanding mechanical properties with very good scratch and abrasion resistance as well as high chemical resistance.

Furthermore, **Tolonate™ X F 450**'s notably low viscosity level enables the creation of high solids coating formulations with low VOC emissions.

Tolonate™ X F 450 – for applications requiring high flexibility

- wind turbines
- concrete floors
- sports flooring
- synthetic coatings
- waterproofing

The perfect hardener for elastic coatings

Applications include – high solids or solvent-free 2K PU and polyurea coatings as well as in polyaspartic coatings

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live@Worlée meets Friends.



Unfortunately, the European Coatings Show was cancelled again this year. Nevertheless, we would like to remain in constant contact with our customers, partners and friends and report on current developments and trends in the paint and coatings industry. For this reason, we put together an extensive and interesting seminar programme with 11 English presentations and presented them in a special edition of our live@Worlée online seminar series – live@Worlée meets Friends. The whole event took place from 6–9 September. Our long-standing partners and principals Synthomer, DOW Coatings Materials, Estron Chemical Inc, Bruno Bock Thiochemicals, Vencorex and King Industries International were also part of it.

The range of topics was broad: from anti-graffiti or power coatings to radiation curing and innovative (binder) technologies – there was something for everyone. The recordings of the diverse presentations can still be viewed today on our [GoToStage channel](#). We would like to take this opportunity to sincerely thank all the speakers and numerous participants who made this event a highlight of 2021!



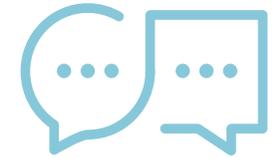
**Versatile Hybrid Coatings:
WorléeProtect**
Dr. Stefan Scholz,
Research and Development
Additives,
Worlée-Chemie GmbH



**WorléeCryl VP 7750
A flexible Cationic Dispersion**
Florian Ninnemann,
Head of Technical Marketing
Laboratory Water-based Systems,
Worlée-Chemie GmbH



**A Novel Approach to Two Component Low Gloss,
Weathering Resistant Powder Coatings**
Tony Pledger,
Business Development Manager
EMEIA & AU/NZ,
Estron Chemical, Inc



**The latest News from
Construction Chemistry:
From polymeric amine curing
agents to transparent fire
protection for wood**
Nicole Ahlgrimm,
Coordination Construction
Chemicals,
Worlée-Chemie GmbH



**Thiocure®
in Radiation Curing**
Dr. Tom Beyersdorff,
Technical Sales Manager,
Bruno Bock Thiochemicals



**NACURE PC 100:
new catalyst for epoxy/acid
powder coatings**
Matthew Salvi,
Technical Sales Specialist,
King Industries International



Architectural Wood Coatings
Thomas Bernhofer,
Senior Technical Service
Manager Coatings,
Synthomer



**WorléePur Si Technology
a future for wood surfaces?**
Lars Ossenschmidt,
Head of Application Lab Solvent-
based Systems, Coordination
Innovation Management,
Worlée-Chemie GmbH



**Towards best practice
in a snail trail free exterior
architectural paint**
Stéphane Van Oyccke,
Senior TS&D Scientist Additives,
DOW Coating Materials



**WorléeAdd VP 4890: Adhesion
promoter for the use in industrial
coatings applications**
Bodo Scheibler,
Head of Application Lab Additives,
Worlée-Chemie GmbH



**New Flexible Polyisocyanate
Tolonate™ X F 450**
Marc Cornick,
Market Development Manager,
Vencorex



Sustainability report

The time is rapidly approaching – we will be publishing Worlée-Chemie's third sustainability report, which will mainly cover the years 2019 and 2020. With our reports, we want to paint a holistic picture of our corporate performance based on economic, ecological and social aspects. In this way, we want to express that the consideration of sustainability aspects along our value chain is a high priority for us.

The latest report is divided into three parts: In Part I, we report on sustainability activities of Worlée-Chemie in the areas of economy, ecology and social affairs in accordance with the GRI Standards Option Kern. In Part II you will learn more about important events of the last two years as well as the implementation of various sustainability activities in the company. Part III deals

with the key figures from the areas of economy, ecology and social affairs.

As soon as the sustainability report has been published on our [website](#), we will inform you via our [LinkedIn channel](#) and look forward to your feedback.



Cycling for the environment

This year, the annual STADT-RADELN took place in Lauenburg from 22 August – 11 September. With this campaign, Climate Alliance wants to encourage the residents of Lauenburg to cycle for 21 days. The aim is to cycle as many everyday journeys as possible in a climate-friendly way in order to contribute to climate protection and reduce CO₂ emissions.

The chemistry cycling team consisted of 11 Worléeans who pedalled hard over the 21 days and covered a total of 2,458 kilometres. This corresponded to 361 kg of CO₂ saved. Of the 18 participating teams, the Chemie-Radler team achieved the 2nd place. We thank everyone for participating and congratulate them on the great result!

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Our path to climate neutrality



As already mentioned in the WorléeJournal issue 15, Worlée-Chemie is participating in the cooperation project “Ways to a climate-neutral company” of the Klimaschutz-Unternehmen e.V. and the University of Kassel. In this two-year project, customised roadmaps to climate neutrality are being developed for ten member companies of Klimaschutz-Unternehmen e.V.



The active work phase for Worlée-Chemie began with a three-day workshop. Together with three scientists from the upp (department of “environmentally sound products and processes” at the University of Kassel), Worlée-Chemie experts from the fields of e-technology, operational energy and environmental management, sustainability management and digitalisation, innovation and resource efficiency worked on developing an individual climate neutrality strategy. The aim is to achieve the corporate goals of greenhouse gas neutrality of the Lauenburg and Lübeck Scope 1 and 2 plants by 2030 and climate neutrality including Scope 3 of the plants by 2045.

Extensive, already implemented and planned measures were recorded for the fields of action energy efficiency, substitution and compensation. Furthermore, new ideas were collected and prioritised in a moderated brain-

storming session. The approaches were underpinned by scientifically supported input from the three upp experts.

For example, reports were made about on the international PAS 2060:2014, which is the first valid set of rules for climate neutrality. In addition, the “onion-skin model” was presented as a way of thinking about maximum energy efficiency, and guarantees of origin for green electricity and carbon offsetting and insetting were discussed.

The discussion on further energy efficiency and possible substitution measures was technically very concrete in order to realise further possibilities for replacing fossil fuels in the future – in addition to the green electricity that has been purchased for years. The presentation of sensible compensation possibilities in the company’s environment and sphere of influence was also very interesting, without

having to fall back on the usual international compensation providers, as many companies are currently doing in order to call themselves “climate neutral”.

At the end of the workshop, it was clear that the intensive work had been worthwhile and that an initial roadmap had been drawn up:

Goals and focus were confirmed, concrete tasks in the areas of efficiency, substitution, compensation and organisational matters were distributed, and the next steps were defined.

The team will meet in three months to present the interim results.

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