NEVER STOP LEARNING
WACKER ACADEMY USA and Canada

CREATING TOMORROW’S SOLUTIONS
“Learning” is a key qualification nowadays – both in your career and in daily life. Without the ability to constantly expand our knowledge, we would be absolutely confounded every time a new smartphone hit the market. Yet, “learning” is also about a willingness to be open-minded. Open to new ideas, new people and new technologies. That is why we once again extend a warm invitation to you in 2012. After all, an international outlook provides unique opportunities to get to know experts from a totally different culture and background and to exchange views with them.

Our seminar participants benefit from this approach just as much as they do from our seminar program with its highly practical slant. “What you learn in theory during the morning can be put into practice during the afternoon” – the same is true of our 2012 program. We hope the courses we offer will again be of tremendous interest to you.

As always, we also look forward to receiving your suggestions.

Let us know what topics you’d like to have covered and how you think our seminar program could be improved.

We, too, firmly believe that you never stop learning.

Best wishes

Kristen Ross
Program Coordinator
WACKER Academy - North America
LEARNING BY DOING.

Because the lab is sometimes the best learning venue.

WACKER ACADEMY’s training courses have been created to bridge classroom experience with hands-on applications and techniques. They stem from 100 years of experience in the marketplace. That fact is also reflected in the teaching concept. All training courses include as much theory as necessary and as much practical work as possible. We have the ideal framework at our disposal: everywhere in the world, the learning venues are located in the immediate vicinity of our technical centers. These technical centers have the task of helping customers to expand their level of proficiency in markets which they compete. As labs, they are equipped with cutting-edge instruments for lab tests and are available to us for training purposes.

The WACKER ACADEMY in Allentown is situated next to our main Polymers Technical Center for NAFTA. Its fully equipped laboratories give you the opportunity to test your knowledge about all polymer-based applications or even your specific products and formulations.

In Adrian the WACKER ACADEMY is located in our main Silicones Technical Center for NAFTA. The state-of-the-art lab is equipped with testing and processing facilities thus giving you the opportunity to test your acquired knowledge in practice and learn more about these incredibly versatile materials.
EXPERTISE
MEETS EXPERIENCE

Our specialists understand their field.
And your market.

Brian Allen
Technical Marketing Manager
Performance Solutions

Dr. Daniel Calimente
Technical Marketing Manager
Chemical and Textiles

Greg Dull
Marketing Manager
Rubber Fabricators

Frances Fournier
Chemist
Chemical and Textiles

Dr. Lingrong Gu
Technical Marketing Manager
Chemical and Textiles

Richard Kirkpatrick
Chemist
Construction Chemicals

Brian is Technical Manager for WACKER Chemical Corporation’s NAFTA Performance Solutions business. He has been employed by WACKER for six years. His extensive experience includes providing formulations support and application expertise that enable our customers to offer innovative and customized solutions for enhanced performance and quality. Mr. Allen holds a Bachelor of Arts, majoring in Biology, from Albion College and a Masters of Business Administration from the University of Toledo. He has been in the pressure-sensitive adhesives industry for more than 12 years with experience in both research and development and applications support.

Dr. Daniel Calimente joined WACKER in early 2011 having been previously employed as a Technical Manager with PPG Industries and as a Lab Supervisor with BASF Corporation. Mr. Calimente holds a Ph.D. from South Dakota State University, and a Postdoctoral Fellowship at Wayne State University with emphasis on Synthetic Organic Chemistry. He has been involved in research projects for more than ten years, with work on primers and topcoats, polyesters, polyurethanes, acrylics, silicones, etc. Daniel has published several papers in peer-reviewed journals, and has published patents in the field of coatings.

Greg joined WACKER in 1999 and spent his first year in a process support position from the Business Team perspective. The next seven years were spent as Technical Service Manager responsible for the automotive segment. Since October, 2007, Greg has served as Marketing Manager overseeing the Healthcare and Consumer Good markets.

Frances has been with WACKER for two years and has 14 years of extensive experience in the silicone industry in various application and development roles. She has spent her time at WACKER focusing on Industrial Defoaming and the Oil & Gas Industry. Ms. Fournier holds a Bachelor of Science Degree majoring in Chemistry from University of Michigan, a Masters in Polymer Chemistry from Central Michigan University, and is currently pursuing a Masters of Business Administration from the University of Michigan. Demonstrating her breadth of background in the silicone industry, Ms. Fournier holds 5 patents covering applications in coatings, paper recycling, and textile finishes.

Dr. Lingrong Gu has been heavily involved in the pulp and industrial defoamer market during her three and a half years at WACKER. Dr. Gu holds a PhD degree majoring in Organic Chemistry from Clemson University. Since joining WACKER in 2008, her focus has been with researching and developing new generation silicone defoamers and drainage aids for pulp industry, building advanced testing technique for defoamer products, as well as exploring and promoting silicone-based defoaming solutions for food, agrochemical, and general industries. Prior to joining WACKER, Dr. Gu worked in the field of Nanoscience and Nanotechnologies researches. She published two book chapters and a dozen peer-reviewed international journal papers. Her work was well recognized in this field and reported by numerous media.

Richard has been employed at WACKER for ten years and has been heavily involved in the construction coatings industry during that time. His focus has been with researching and developing silicone-based applications and solutions for the industrial, architectural and decorative coatings markets. Richard holds patents on increasing the hydrophobicity of construction materials, and has been invited to speak at numerous symposia and conferences among those being the Federal Society of Coatings Technologies in 2009.
Randy Lorenz  
Technical Marketing Manager  
Wacker Polymers

Randy is Technical Marketing Manager for Wacker Chemical Corporation’s Polymer Chemicals business in North America. He has been employed at WACKER and formerly with Air Products Polymers (APP) for the past 16 years. During this time his focus has been with polymers for the adhesives, coatings, construction, and engineered fabrics industries. Randy holds a Bachelor of Science degree in Chemistry/Polymer Science from Penn State University. He holds patents on developing adhesives for difficult-to-adhere substrates and has presented technical papers at several symposia and international conferences.

Timothy McCormack  
Chemist  
Chemical and Textiles

Timothy has been with WACKER since 2005 during which time he has been involved in product development and technical support for the coatings and plastics market segments. He holds a Bachelor of Science Degree in Polymer Chemistry from Eastern Michigan University (EMU) and is nearing completion of his Master’s Degree in the same discipline. Prior to joining WACKER, Timothy McCormack worked in the automotive paint industry for 27 years. There he developed primer and topcoat formulations for many end use applications for plastics and metal substrates.

Louis Moore  
Technical Marketing Manager  
HDK® Pyrogenic Silica

Louis has been at WACKER for two and a half years and is a veteran of more than 30 years in the specialty chemicals industry. He has experience in both marketing and technical management roles with extensive experience in adhesives and sealants. Louis holds a Bachelor’s of Science Degree majoring in Chemistry from Michigan State University. In addition, Louis Moore has served as chairman and vice chairman of the Society of Mechanical Engineers Adhesives Council and served on Adhesives Age magazine’s editorial board for two years.

Megan Powell  
Technical Marketing Manager  
Chemical and Textiles

During her six years with WACKER, Megan has worked with all types of silicones, from liquid and solid rubber to fluids and emulsions. Megan holds a Bachelor of Science degree in Textile Chemistry and a Master of Science degree in Textiles, Fiber and Polymer Science from Clemson University. She is currently working on her Masters of Business Administration at the University of Michigan. Prior to joining WACKER, Ms. Powell worked as a Chemist in the technical textile area. In 2009, she began working with silicone fluids and emulsions for the textile auxiliary and fiber markets at the company’s Adrian, MI facility.

George Tessier  
Technical Marketing Manager  
Wacker Polymers

George is Technical Service Manager for Wacker Chemical Corporation’s Construction Polymers Business Unit—Americas. George has been with WACKER since September 2009 and has more than 30 years experience in the construction chemicals industry. For most of his career George has been involved with the development of cement-based products but he has also worked with masonry coatings, ETICS finishes, reactive resins and penetrating sealers. George holds a Bachelor of Arts Degree in Chemistry from the University of Vermont.

Vic Wilcik  
Liquid Silicone Rubber Specialist  
Rubber Fabricators

Vic has been with WACKER for 20+ years, all of which have been exclusively dedicated to the Liquid Silicone Rubber business area. His experience allows him to help customers with questions relating to WACKER’s Liquid Silicone Rubber products. One of his main focuses is on the equipment and techniques required to successfully process LSR.
## SEMINAR OVERVIEW

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<thead>
<tr>
<th>Construction Industry</th>
<th>Aims</th>
<th>Target Group</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Dry-Mix Mortars with VINNAPAS® Dispersible Polymer Powder</td>
<td>You will get an introduction to dry-mix mortar technology and the fundamentals of polymer chemistry followed by general overview of different possible applications.</td>
<td>Technical managers, R&amp;D managers, chemists, lab technicians and sales people with technical background</td>
<td>2 days</td>
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<tr>
<td>Ceramic Tile Adhesives and Tile Grouts</td>
<td>This course will focus on the theoretical and practical uses for different tile adhesives, tile grouts, and the main benefits of VINNAPAS® dispersible polymer powders.</td>
<td>Technical managers, R&amp;D managers, chemists, lab technicians and sales people with technical background</td>
<td>2 days</td>
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<tr>
<td>Perfect Floor Surfaces – Polymer Binders in Self-Leveling Floor Screeds</td>
<td>You learn about the different types of self-leveling compounds and the advantage of using polymer binders for this application. You will also be informed about current US and European standards for self-leveling compounds (SLC).</td>
<td>Technical managers, R&amp;D managers, chemists, lab technicians and sales people with technical background</td>
<td>2 days</td>
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<tr>
<td>Silicones for Masonry Protection</td>
<td>You learn how water repellency protection is achieved and how to select the ideal water repellent so the optimal level of protection is realized.</td>
<td>Chemists in the coatings, adhesives and sealants industries, contractors, architects and specifiers of protective sealers</td>
<td>1 day</td>
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<tr>
<th>HDK® for Diverse Industries</th>
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<th>Target Group</th>
<th>Duration</th>
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<tbody>
<tr>
<td>HDK® Pyrogenic Silica for Rheology Control</td>
<td>You learn, in theory and practice, how to use pyrogenic silica for rheology control. Flow properties, anti-settling properties, sag resistance, and many product attributes defined by rheology will be discussed</td>
<td>Chemists in the coatings, adhesives and sealants, personal care and food industries</td>
<td>1 day</td>
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<tr>
<th>Paper and Film Industry</th>
<th>Aims</th>
<th>Target Group</th>
<th>Duration</th>
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<tr>
<td>DEHESIVE® Silicone – Release Coatings for Paper and Film</td>
<td>This course is a combination of theory and hands-on experience. Release coatings are critical to the function of pressure-sensitive label stock constructions. Understanding the chemistry and processing of silicone release coatings is essential to the successful development and production of release liners and labelstock. This course focuses on these aspects of release coatings.</td>
<td>Chemists and process engineers, as well as others who want a better understanding of release coatings</td>
<td>1 day</td>
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## SEMINAR OVERVIEW

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<tr>
<th>Rubber Industry</th>
<th>Aims</th>
<th>Target Group</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Advanced Two Shot (In Mold), Plastic / Liquid Silicone Over Molding</td>
<td>Aims: Today’s complex part designs and configurations result in many instances of the mating of plastic components and molded silicone rubber parts. Advancements over the years in Liquid Silicone Rubber materials and equipment have made it possible to overmold silicone rubber directly onto various plastic substrates without the use of primers or as traditional inserts. This course combines classroom subject matter with hands-on experience to demonstrate the process of overmolding plastic with liquid silicone rubber and touching on the design benefits that may be achieved.</td>
<td>This course will benefit part designers, project managers, and part fabricators across many markets and applications.</td>
<td>1 days</td>
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<th>HDK® for Diverse Industries</th>
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<th>Duration</th>
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<tr>
<td>Silicone Introduction: Plastics Industrial Coatings, Oil &amp; Gas, Industrial Defoaming, Polishes &amp; Release Agents</td>
<td>This course is a beginning level introduction to silicone chemistry to provide a solid foundation and basic understanding on the applications and product recommendations.</td>
<td>Technical Managers, R&amp;D Managers, chemists, lab technicians and salespeople with technical background</td>
<td>1 day</td>
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GO GLOBAL, LEARN LOCAL

Challenges do not change as you move from place to place. But the best solution does.

What are the benefits of an exterior thermal insulation composite system (ETICS) in India? What must its composition be? What rubber types are especially successful in the Ukrainian market? And what can we learn from those situations for the US market? Its blend of globalism with regionalism is one of the core benefits of the WACKER ACADEMY. Sites worldwide disseminate knowledge, bring together experts and generate fresh ideas on topical issues that are specific to individual industries for particular markets and regions. Meanwhile, all training courses benefit from other regional findings because whether in energy efficient building, cost-cutting technologies or reducing emissions, the basic challenges facing today’s industries are mostly the same the world over. Moreover, solutions are as regionally varied as the individual scenarios. We help you access these diverse situations.
INTERESTED IN OUR WORLDWIDE OFFERING?

Worldwide, WACKER ACADEMY provides knowledge on a variety of topics. To find out more visit www.wacker.com/wacker-academy

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<tr>
<th>Management &amp; Skills</th>
<th>Europe (Burghausen)</th>
<th>Greater China (Beijing)</th>
<th>India (Mumbai)</th>
<th>Middle East &amp; Africa (Dubai)</th>
<th>North America &amp; Canada (Adrian &amp; Allentown)</th>
<th>Russia &amp; CIS (Moscow)</th>
<th>South America (São Paulo)</th>
<th>Southeast Asia (Singapore)</th>
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<td>CA Automotive &amp; Transport</td>
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<td>CA Textiles, Leather &amp; Fibers</td>
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DRY-MIX MORTARS WITH VINNAPAS® DISPERSIBLE POLYMER POWDERS

Exploring the potential of polymer powder dispersion in dry-mix mortars.
Two day fundamentals seminar.

Aims
You will get an introduction to dry-mix mortar technology and the fundamentals of polymer chemistry followed by general overview of different possible applications.

Target Group
Technical managers, R&D managers, chemists, lab technicians and sales people with technical background.

Contents
- Market-oriented information about dispersible polymer powders and their benefits in dry-mix mortars
- Major applications: ceramic tile adhesives, tile grouts, self-leveling compounds, waterproof coatings and membranes, concrete repair
- Historic development of dry-mix mortars
- Introduction to polymer chemistry
- Main standards and test methods (U.S. and European)
- Information about the latest market trends

Instructors
- Randy Lorenz
  Technical Marketing Manager
- George Tessier
  Technical Manager

Duration
2 Days

Location
WACKER ACADEMY
Allentown, Pennsylvania

Fees
Charges applicable

Number of participants
5 – 20

CERAMIC TILE ADHESIVES AND TILE GROUTS

Building with tiles – from technical understanding to business potential.
Two day fundamentals seminar.

Aims
You get to know, theoretical and practical, different tile adhesives, tile grouts and the main benefits of VINNAPAS® dispersible polymer powders.

Target Group
Technical managers, R&D managers, chemists, lab technicians and salespeople with technical background

Contents
- Market-oriented information about dispersible polymer powders and their benefits in tile adhesives and tile grouts
- Definition of different tile adhesives and tile grouts
- Main differences between types of tile adhesives and tile grouts
- Standards and specifications (ANSI and ISO)
- Information about the latest industry trends
- Test methods and main standards
- Practical training in a state-of-the-art lab

Instructors
- Randy Lorenz
  Technical Marketing Manager
- George Tessier
  Technical Manager

Duration
2 Days

Location
WACKER ACADEMY
Allentown, Pennsylvania

Fees
Charges applicable

Number of Participants
5 – 20
PERFECT FLOOR SURFACES – POLYMER BINDERS IN SELF-LEVELING FLOOR SCREEDS

Understanding their complex properties and drawing on WACKER’s expertise.
Two day intensive seminar.

Aims
You learn about the different types of self-leveling flooring compounds and the advantage of using polymer binders for this application. You will also be informed about current US and European standards for self-leveling compounds (SLC).

Target Group
Technical managers, R&D managers, chemists, lab technicians and sales people with technical background

Contents
– Overview of different SLC types
– Raw materials and additives
– Polymer binders and their importance for SLC
– Mineral binder systems and their effects: Portland cement, calcium aluminate cement, ettringite-based binders
– Requirements and standards
– VOC in flooring
– Practical work with SLC, including the carrying out of relevant test methods
– Current market trends

Instructors
– Randy Lorenz
  Manager, Technical Marketing
– George Tessier
  Technical Manager

Duration
2 Days

Location
WACKER ACADEMY
Allentown, Pennsylvania

Fees
Charges applicable

Number of participants
3 – 10

SILICONES FOR MASONRY PROTECTION

How to develop coatings that prolong the lifespan of buildings.
One day seminar.

Aims
You learn how water repellency protection is achieved and how to select the ideal water repellent so the optimal level of protection is realized.

Target Group
Chemists in the coatings, adhesives and sealants industries, contractors, architects and specifiers of protective sealers

Contents
– Definitions and basics of silicone chemistry
– The protection of neutral pH mineral substrates
– The protection of alkaline pH mineral substrates
– Hands-on training with application of penetrating sealers, and the testing of the performance in the lab

Instructors
– Richard Kirkpatrick
  Chemist

Duration
1 Day

Location
WACKER ACADEMY
Adrian, Michigan

Fees
Charges applicable

Number of participants
5 – 8
Aims
You learn, in theory and practice, how to use pyrogenic silica for rheology control.

Target Group
Chemists in the coatings, adhesives and sealants, personal care and food industries

Contents
– Definitions and basics of practical rheology
– The chemistry, structure, and properties of pyrogenic silica
– The use of HDK® Pyrogenic Silica as a rheology modifier
– Hands-on training with viscosity measurement and the use of pyrogenic silica

Instructors
– Louis Moore
  Technical Marketing Manager
  HDK® Pyrogenic Silica

Duration
1 Day

Location
WACKER ACADEMY
Adrian, Michigan

Fees
Charges applicable

Number of participants
5 – 8
DEHESIVE® SILICONE RELEASE COATINGS FOR PAPER AND FILM

How to find the right silicone to provide optimum solutions for your release coatings. One day seminar.

Aims
You will understand the chemistry and processing of silicone release coatings and learn how to tailor release coatings for the successful development and production of release liners and pressure sensitive labelstock.

Target Group
Chemists and process engineers, as well as others who want a better understanding of release coatings

Contents
- Definitions and basics of silicone release chemistry
- Proper selection of appropriate materials for specific performance requirements
- Differences between solvent-free and emulsion release coatings technologies
- Hands-on experience:
  - Solvent-free mixing and coating
  - Emulsion mixing and coating
  - Performance testing
- Safe handling of silicone hybride materials
- Regulatory overview

Instructors
- Brian Allen
  Technical Manager

Duration
1 Day

Location
WACKER ACADEMY
Adrian, Michigan

Fees
Charges applicable

Number of participants
5 – 8
ADVANCED TWO SHOT (IN MOLD), PLASTIC / LIQUID SILICONE OVER MOLDING

Understanding the process of over molding plastic with liquid silicone
One day training.

Aims
Today’s complex part designs and configurations result in many instances of the mating of plastic components and molded silicone rubber parts. Advancements over the years in Liquid Silicone Rubber materials and equipment have made it possible to over mold silicone directly onto various plastic substrates without the use of primers or as traditional inserts. This course combines classroom subject matter with hands-on experience to demonstrate the process of over molding plastic with liquid silicone, touching on the design benefits that may be achieved.

Target Group
This course will benefit part designers, project managers, and part fabricators across many markets and applications.

Contents
- Liquid Silicone Rubber, including the family of self-adhesive materials
- Background on LSR pumps and presses
- Tooling considerations
- Processing considerations
- Advantages of two-shot over molding
- Hands-on two-shot injection molding

Instructors
- Vic Wicik
  Liquid Silicone Rubber Specialist
  Rubber Fabricators

Duration
1 Days

Location
WACKER ACADEMY
Adrian, Michigan

Fees
Charges applicable

Number of participants
5 – 10

SILICONE INTRODUCTION: Plastics, Industrial Coatings, Oil & Gas, Industrial Defoaming, Polishes & Release Agents

Familiarization of silicone chemistry to better understand applications
One day seminar.

Aims
This course is a beginning level introduction to silicone chemistry to provide a solid foundation and basic understanding on the applications and product recommendations.

Target Group
Technical Managers, R&D managers, chemists, lab technicians and salespeople with technical background

Contents
- Silicone and other organic additives commonly used in the plastics industry
- Intermediate resins used for industrial and protective coatings
- Defoaming in the General Industrial, Agro Food, and Oil & Gas markets
- Oil & Gas silicone applications from the Drilling through to the Refining process
- General industrial polishes and release agents

Instructors
- Dr. Daniel Caliminte
  Technical Marketing Manager
  Chemical & Textiles
- Frances Fournier
  Chemist
  Chemical & Textiles
- Dr. Lingrong Gu
  Technical Marketing Manager
  Chemical & Textiles
- Timothy McCormack
  Chemist
  Chemical & Textiles
- Megan Powell
  Technical Marketing Manager
  Chemical & Textiles

Duration
1 Day

Location
WACKER ACADEMY
Adrian, Michigan

Fees
Charges applicable

Number of participants
5 – 8
EXPERTISE AND SERVICE NETWORK ON FIVE CONTINENTS

WACKER ACADEMY Registration

Tel. (855) EZLEARN or email wacker-academy.usa@wacker.com

We will confirm receipt of your registration and all important details by email.

We’ll gladly assist with all organizational matters involved in attending one of our seminars. For example:

- Our service
  - Hotel reservations
  - Restaurant recommendations
  - Suggestions for supporting program
  - Assistance with everyday matters (purchasing, etc.)

Please note our General Terms and Conditions at www.wacker.com/wacker-academy

WACKER is one of the world’s leading and most research-intensive chemical companies. In 2010, our sales totaled €4.75 billion. Products range from silicones, binders and polymeric additives for diverse industrial sectors to bioengineered pharmaceutical actives and hyperpure silicon for semiconductor and solar applications. As a technology leader focusing on sustainability, WACKER promotes products and ideas that offer high value-added potential to ensure that current and future generations enjoy a better quality of life based on energy efficiency and protection of the climate and environment.

Spanning the globe with five business divisions, 26 production sites and over 100 subsidiaries and sales offices, we have established a presence in all key economic regions and growth markets. With a workforce of 16,300, WACKER sees itself as a reliable innovation partner that develops trailblazing solutions for, and in collaboration with, its customers. WACKER also helps them boost their own success. Our technical centers employ local specialists, who assist customers worldwide in the development of products tailored to regional demands, supporting them during every stage of their complex production processes, if required.

WACKER e-solutions are online services provided via our customer portal and as integrated process solutions. Our customers and business partners thus benefit from comprehensive information and reliable service to enable projects and orders to be handled quickly, reliably and very efficiently. Visit us anywhere, anytime around the world at: www.wacker.com
The data presented in this brochure are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this brochure should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.