

Parkhotel Schönbrunn
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TAKING POLYUREA TO THE NEXT LEVEL

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SUPRASEC® MDI-based, solvent-free formulations for polyurea spray coatings provide an alternative to conventional coatings for many applications, including concrete and anti-corrosion coatings and containment.

Welcome to the 2nd PDA Europe Annual Conference

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18-21 November 2008, Vienna, Austria

We are delighted to welcome you in Vienna for the second Polyurea Development Association Europe Annual Conference!

The PDA Europe Programme Committee and Board of Directors have been committed to organize a useful and dynamic timetable which we hope meets your different, but complementary interests and goals. We are confident that the three days spent together will be of real benefit to you and give you the latest updates from the polyurea industry in Europe and around the world! The location of this Conference in the heart of Europe represents the overall aim of the meeting to create an all-encompassing platform for the European polyurea industry from East and West which facilitates the exchange of information from all corners of the continent and indeed, further afield.

Over the coming days you will have the opportunity to meet with other industry professionals and expand your network of contacts. It will also give you the chance to hear about the latest advancements in polyurea technology and experience case studies from specific applications. You will also be given lots of essential information about the highly regulated world we operate in today, with a presentation on the European Technical Approvals.

Themes including Polyaspartic Polyureas, Slower Polyurea, nanoparticles additives and new amines will bring you up to speed on the very latest formulation possibilities. Case studies presented during the event will cover sewage pools in Israel, the history of polyurea in China, waterproofing in Teheran and other landscaping applications. You will also learn how to transform geotextiles into geomembranes with Murph Mahaffey, and a lot will be explained on polyurea behaviour through the years via a visit to the Vienna Zoo and some case examples.

Training is key to PDA Europe, therefore educational opportunities are included throughout the meeting: a 4-hour Introduction to Polyurea Course on Tuesday the 18th, and a 4-hour Surface Preparation for application on metal and concrete on Wednesday the 19th. They will be coordinated by Dominique Smits, PDA Europe Education Committee Chairman.

PDA Europe members will also gather for the Annual Meeting on Thursday, to welcome new board members and President, and thank outgoing President Marc Broeckaert for his work and dedication in leading PDA Europe for the last two years.

Last but certainly not least, we would like to invite you to join your fellow industry professionals for an evening in the heart of Austrian vineyards outside Vienna in the Fuhrgasl-Huber Wine Tavern.

We are very pleased you have chosen to be part of the second PDA Europe Annual Conference. This event gives us a unique opportunity to gather together professionals from across our industry. Your presence and active participation will help make this event a real success and we hope it gives you the time to meet new people, exchange ideas and have fun.

Yours sincerely,
Alain Descampe
PDA Europe Programme Committee Chairman

Tuesday, 18 November 2008

Registration Desk 9:00 - 17:00

10:00 - 12:00	Educational Course - PDA Europe introduction to Polyurea for the Applicator and Contractor (Part I) Room: Franz lozef I (Course registrants only)		
12:00 - 13:30	Lunch Break		
13:30 - 15:30	Educational Course - PDA Europe introduction to Polyurea for the Applicator and Contractor (Part II) Room: Franz lozef I (Course registrants only)	13.30 - 15.30	PDA Europe Board Meeting Room: Franz lozef II (PDA Europe members only)
15:30 - 16:00	Coffee Break		
16:30 - 17:30	Membership Committee + Industry Relations Committee Meeting Room: Franz lozef I (PDA Europe members only)	16:30 - 17:30	Education Committee Meeting Room: Franz lozef II (PDA Europe members only)
18:00 - 19:30	Welcome cocktail - Sponsored by:		



**Conference Venue
Austria Trend Parkhotel Schönbrunn**

Parkhotel Schönbrunn was built in 1907 as the guest house of Emperor Franz Josef I. The imperial atmosphere of bygone days together with modern facilities and friendly service make the hotel unique in the city of Vienna. The hotel is located in immediate vicinity of Schönbrunn Palace in the district 'Hietzing'. The hotel owns one of the few preserved classic ballrooms in Vienna with a unique ambience in which numerous traditional balls take place. The second day of the conference, Wednesday 19 November, will entirely take place in the ball room.

EDUCATIONAL COURSES

Introduction to Polyurea for the Applicator and Contractor

Tuesday 18 November, 10:00-15:30

One of our most popular courses designed specifically with the applicator and contractor in mind, this session expands on topics of physical properties of polyurea, testing procedures, surface preparations, application procedures and techniques, and advances in and types of equipment.

Price:

Member 125 EUR, Non-member 225 EUR
On-site registration possible,
payment by credit card only

Surface Preparation Course

Wednesday 19 November, 09:00-13:00

The purpose of this course is to provide state of the art information and technology on the proper surface preparation of concrete and steel with the specific requirements involved before application of Polyurea. It is a must see for applicators new to the industry or those fine-tuning their techniques.

Price:

Member 200 EUR, Non-member 400 EUR
On-site registration possible,
payment by credit card only

Wednesday, 19 November 2008

Registration Desk 07:30 - 17:00

Conference Room: Ball-

room Exhibition Room: Kaiser Salon

08:30 - 09:00 Welcome to the second PDA Europe Annual Conference
 09:00 - 09:30 Polyurea Spray Coatings - Technologies and advances in raw materials and applications / *Dr. Katty Darragas (Huntsman)*
 09.30 - 10:00 10 years and more : 2 examples of color stable polyurea coating systems / *Steven Reinstadtler (Bayer)*

MaterialScience LLS)



09:00 - 13:00 Surface Preparation Course

Room: Franz Iozef I
(Course registrants only)

10:00 - 10:30 Exhibition & Coffee Break Sponsored by:

10:30 - 11:00 Slower polyurea for a simplified application
Romuald Bartczak (Flexguard) / Alain Descampe (Imexfa)

11:00 - 11:30 Intel - sewage pools
Eliezer Nisensvieg (MMSL)

11:30 - 12:00 Polyurea and Geotextiles - Application profiles



Murph Mahaffey (WIWA)

12:00 - 13:30 Exhibition + Lunch Sponsored by:

13:30 - 14:00 Spray and slow polyurea systems for bridge coating and for protection of industrial construction / *Alexey Ivanov (Chimex)*

14:00 - 14:30 Mama Mia ! Here we go again - bridges, pools and garage decks
Elisabet Michelson (Elmico)

14:30 - 15:00 That Was Polyurea Loves Sports Then, This Is Polyurea Loves Olympic Games Now!



Weibo Huang (Qingdao Technological University)

15:00 - 15:30 Exhibition & Coffee Break Sponsored by:

15:30 - 16:00 European Technical Approvals for construction products based on polyurea / *Jürgen Magner (Polymer Institut)*

16:00 - 16:30 Polyurea waterproof membrane
Nazli Gharavisky (Pedram)



Group)

16:30 - 17:00 Polyaspartic Coatings - Latest developments for extending

Thursday, 20 November 2008

Registration Desk 07:30 - 08:30

Conference Room: Franz Iozef I+II

Exhibition Room: Kaiser Salon

08:30 - 12:00 Field trip Polyurea applications: Vienna Zoo

12:30 - 13:30 Exhibition + Lunch

13:30 - 14:00 Polyaspartics - Innovative binders for cost-effective coating concepts
Thomas Bäker (Bayer)

14:00 - 14:30 Intelligent surfaces via nanoparticles
Dr.-Ing. Wolfgang Beck (Panadur)

14:30 - 15:00 PDA Europe Annual Meeting: Committee activities presentation, Financials - YTD & 2009 budget, New Board 2009 - Elections & Hand-Over Presidency 2009 (PDA Europe members only)

15:00 - 15:15 Thanking note from New President

15:30 - 16:30 Board Wrap-up Meeting (PDA Europe members only)

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Polyurea Spray Coatings - Technologies and advances in raw materials and applications

Dr. Katty Darragas (Huntsman)

Wednesday, 19 November, 09:00

Huntsman Performance Products will present new raw material technologies for the formulators to modify their current systems.

These new amines are designed for use in both aromatic and aliphatic elastomeric coating systems.

The JEFFLINK® diamine chain extender series offer the formulator opportunities to use a wider range of aliphatic isocyanate prepolymers.

JEFFAMINE® SD-amines allow the efficient formation of low viscosity aliphatic prepolymers. Secondary amines allow the formation of high hardness aliphatic and aromatic coatings.

These newly developed secondary JEFFAMINE® SD-amines and JEFFLINK® diamine chain extenders will be illustrated by a wide range of applications.

Katty F. Darragas is native of Oudenaarde, Belgium. She studied chemistry at the Universities of Kortrijk and Leuven (Belgium) and received her License Degree in Organic Chemistry and her PhD degree in Polymer Chemistry from the University of Leuven in Belgium in respectively 1985 and 1989.

She then joined Degussa in Antwerp to work in R&D on UV stabilizers. In beginning of 1991, she joined Texaco Chemical Co. / Huntsman to take on the responsible for technical support and application research of the Performance Products/Performance Specialties in Europe. She has mainly been involved in amine curing agents, speciality amines, and cyclic carbonates in the coating, civil engineering, composite and nylon application area. For the moment she is as Technical Development Manager Specialties responsible for application development and technical service of Performance Specialties in aforesaid mentioned markets.

10 years and more : 2 examples of color stable polyurea coating systems

Steven Reinstadtler (Bayer MaterialScience LLS)

Wednesday, 19 November, 09:30

Aliphatic Polyaspartic Topcoats over Polyurea Thick Film Coatings - Two Case Histories Spanning 12 Years

Polyaspartics have been used for many years as a light stable, chemical resistant topcoat over aromatic polyurea thick film coatings. This presentation will briefly discuss the basics behind the polyaspartic coatings which are classified as aliphatic polyureas. The main focus of the presentation will be on reviewing two polyurea industrial projects: The Beau Catcher Tunnel in Asheville, North Carolina that was completed in 1996 and the San Mateo Bridge in San Mateo, California that was completed in 2001. The details of the original work will be covered as well as observations by the author as he revisits the sites after years of exposure to the environment.

Steven Reinstadtler works in the Coatings Adhesives, and Specialties Division at Bayer MaterialScience in Pittsburgh, Pennsylvania, USA. He has been at Bayer for 20 years working in a variety of technical and marketing positions in both the Polyurethanes and Coatings divisions. He is currently the Market Development Manager for the Coatings Construction Group and in charge of the Green Building initiatives for the Coatings Adhesives, and Specialties Division.

Steven holds a Bachelor in Chemistry degree with a Polymer Science option from the University of Pittsburgh and also has a minor in

Steven is a member of several professional societies including the American Chemical Society (ACS), The Society for Protective Coatings (SSPC), and the American Plastics Council. He is a committee member for the local chapter of SSPC and the PDA's technical committee. Steven co-chairs the SSPC Polyurea Thick Film Coatings Committee and organizes the Thick Film Coatings sessions at the PACE show each year. He is very involved in Bayer's volunteer science literacy program, Making Science Make Sense®, and routinely presents practical science demonstrations to students in 1st through 12th grade. Steven lives in the Pittsburgh area with his wife and two kids. He enjoys scuba diving, breeding orchid hybrids, and biking.



Slower polyurea for a simplified application

Romuald Bartczak (Flexguard) / Alain Descampe (Imexfa)

Wednesday, 19 November, 10:30

The expertise and the highly specialized machinery required to spray fast setting polyurea are certainly a bottleneck to its development.

This paper will present an other generation of pure polyurea with gel times over 30 sec and setting times about 1 minute.

Next to being more user friendly and less demanding on machinery it also opens the door for in-mold spray applica-



Romuald Bartczak started his career as process and automation manager for polyester gelcoats and pigments in 1988 at Fabripol. In 1994 he became general manager of Fabripol. In 1999 Romuald started pioneering work as a formulator to open up

the Benelux market for polyurea and therefore founded FlexGuard, a company dedicated to the formulation and production of pure polyurea systems.

Alain Descampe has a master degree in engineering and a degree in economics from Louvain La Neuve University. He specialised in mining, mineral process development and ultra fine grinding before focusing on the development of thermodur resins.



Alain played a pivotal role in introducing polyurea into the French market and developed several specific polyurea systems for dedicated applications. He is now formulating for the company Imexfa in Belgium.

Intel - sewage pools

Eliezer Nisensvieg (MMSL)

Wednesday, 19 November, 11:00

Coating 5500sqm concrete sewage pools. After a special treatment the sewage will go from there to agriculture.

Eliezer Nisensvieg was born in Israel 4.6.1954. He is married and has two sons. Academic education: Haifa University. 30 years in business, 5 years in the business of Polyurea. He is a partner/owner of three companies in the business of Construction Maintenance Sealers/coating, distribution of machines and materials to the Middle east. Specialized in desalination projects, oil pipes, sewage.



Polyurea and Geotextiles - Application profiles

Murph Mahaffey (WIWA)

Wednesday, 19 November, 11:30

Polyurea has been used with geotextile fabrics to solve a variety of difficult containment problems that often have complex geometry requiring a unique solution. The drapability and versatility of geotextile fabrics combined with a seamless polyurea membrane offers strength, containment and a longer life than other options. We will review polyurea used with geotextiles used in a variety of applications including a reservoir, tank linings and water features.



Murph Mahaffey is currently a PDA Europe International Board member and International Sales Director for WIWA GmbH Spray Equipment. 15 years in the plural component equipment industry, founding member of PDA as a Board member, Secretary Treasurer and President. Frequent industry presenter and has written numerous articles for industry magazines with translation in several languages.

Spray and slow polyurea systems for bridge coating and for protection of industrial construction

Alexey Ivanov (Chimex)

Wednesday, 19 November, 13:30

Spray and slow polyurea systems for bridge coating and for protection of industrial construction.

The polyurea membrane was approved as a waterproofing layer for bridge surface. The insulation system contains of epoxy primer, spray polyurea, in fact, and tack coat to improve adhesion of an asphalt -wearing course to the elastomeric membrane. About 50 mt of polyurea were used in a bridge and two highway junctions in Saint Petersburg. Along with the spray polyurea, the “brushable” one was applied to protect not readily available places in bridge constructions.

The polyurea roofing system was used to cover about 15 000 sq. m of industrial building in the Ural region. About 10 mt of the polyurea elastomer were applied to the basement waterproofing and the manhole protection. The epoxy modified polyurea system was put to test on equipment used in chemical aggressive medium.



Alexey Ivanov was graduated from Saint Petersburg Technical Institute (Russia) in 1997. In 2000 he joined Chimex Ltd. (Saint Petersburg, Russia), working in a laboratory of organic synthesis as Synthetic Chemist. Two years later Alexey hold a position of Principal Scientist in Irix Pharmaceutical (Florence, SC). Since 2005 he has been working in Chimex Ltd. as Deputy of Technical Director. He is responsible for development of new products and improving technology and synthesis of epoxy, polyurea and other systems.

Mama Mia ! Here we go again - bridges, pools and garage decks

Elisabet Michelson (Elmico)

Wednesday, 19 November, 14:00

A summary of different recent experiences of polyurea application: bridges, pools and garage decks.



Elisabet N. Michelson is managing director of Elmico AS. She is mainly working in marketing and development of thermosetting plastics. Elisabet started her career in RescomMapei AS in 1988, after Polymeric Science study in Sweden, and where responsible of the development of Epoxy and Polyurethane.

That Was Polyurea Loves Sports Then, This Is Polyurea Loves Olympic Games Now!

Weibo Huang (Qingdao Technological University)

Wednesday, 19 November, 14:30

The brief history review of Spray Polyurea Elastomer Technology in China and especially its application in the infrastructures of Beijing 2008 Olympic Games are described in this presentation. Under the leadership and instruction of Prof. Huang since 1995, Chinese polyurea industry has been growing up quickly and remarkably.



Weibo Huang, Ph. D, Professor, was born in Aug. 8, 1963 and graduated from Sichuan University in 1986 and joined MCRI (Marine Chemical Research Institute) the same year. He has been responsible for the research and development of spray polyurea (SPUA) elastomer since 1995 and was honored as the 1st pathfinder in China.

He obtained 3 national awards, 5 ministry awards and 13 Chinese patent rights. He has published more than 120 technical papers and has 6 technical publications in the area of sound and vibration damping and spray polyurea elastomer at home and abroad. He received the government special allowance distributed by the State Council of the People's Republic of China in 2001. Huang has been International Director of the PDA Board (2003-2006).

European Technical Approvals for construction products based on polyurea

Jürgen Magner (Polymer Institut)

Wednesday, 19 November, 15:30

Since 2000 an European Technical Approval Guideline - ETAG 005 for 'Liquid Applied Roof Waterproofing Kits' exists. Since 2008 a new European Technical Approval Guideline ETAG 033 exists for 'Liquid Applied Bridgedeck waterproofing systems' which will be introduced officially until the annual conference.

The speech will point out test procedures, tests results and experiences at Polymer Institut according to both guidelines with products based on polyurea. Also a comparison with other materials will line out the outstanding character of the products in test. The speech will make clearer the market and technical chance of polyurea for



Jürgen Magner - After study of chemistry in 1982 head of the application department of a German polymeric construction products manufacturer.

Since 1991 work in Polymer Institut and joint owner, head of testing, surveillance and certification department, co-author of publications, consultant for work with polymeric construction products, trainer for application, convenor of working groups for waterproofing with reaction resins.

Polyurea waterproof membrane

Nazli Gharavisky (Pedram Group)

Wednesday, 19 November, 16:00

Objective : Confined landscape and flower bed floor coating

Location : Milad Telecommunication Tower-IRAN

Surface area : 20000 m²

Milad Tower is the world's fourth highest telecommunication tower located in the north of Tehran.

Challenge was to install a long lasting floor coating system to act as water barrier to stop water seeping through to other sections. After considering many options client decided on use of NP 401 (Polyurea Coating) lining system from Pedram Paint Group. Concrete was new but had cracks and voids. Floor was firstly sand blasted and grinded. After cleaning process concrete was primed by a special penetrating epoxy primer. Then cracks and voids were repaired with epoxy based grout. As the final coat a layer of polurea was sprayed on at thickness of 1mm. After completion of the coating the area was tested against water penetration for two days. After approval by the client landscaping started and flower garden was constructed.

Nazli Gharavisky - After graduation in Chem.eng. she started work as technical assistant in Pedram Paint Group manufacturing company. Then she was promoted to technical manager position. At present she is pursuing her education towards MBA degree and also working as managing director in Pedram Paint Group. Her work background includes execution of a number of surface protective coating projects working as project manager utilizing Hunstman's raw materials for the coatings. In the past two years she has been preoccupied with formulation and application of polyurea. One of the achievement in this field has been floor coating of parking lot and ramps in Milad Tower ,world's fourth highest Telecommunication Tower in Iran.

Polyaspartic-Coatings - Latest developments for extending performance

Michael Casimir / Karl H. Wührer (Bayer MaterialScience)

Wednesday, 19 November, 16:30

About 10 years ago a new class of polyurea entered the coating market : Polyaspartic-Coatings.

First developed as a reactive diluent for automotive repair paints the short history of the Polyaspartic-Coatings is a success story. Nowadays they are used as light stable topcoats for conventional polyurea, as decorative flooring systems or fast setting corrosion protection paints. However the main border for spreading into other application fields is limited flexibility. This presentation gives an update on the latest developments for tough to flexible Polyaspartic-Coatings raw materials. It includes the developments on both raw material sides, on the amine and also on the isocyanate-prepolymer side. Also other possibilities for getting flexible films, eg use of plasticizers, will be discussed.

Michael Casimir - Born in 1961, he joined the Bayer group in 1977 as an chemical and physical lab technician apprentice. After 7 years of experience in physical testing he joined the waterborne polyurethane development group of the coating business unit, now CAS. Following different positions in the development and marketing area he moved in 2001 to France as a technical and commercial sales rep for CAS. Since 2005 he worked in the corrosion protection marketing group and is heading since Jan 2008 the aliphatic sound deadening + flooring group.



Karl H. Wührer - After joining Bayer in 1987 he worked in the development/ marketing groups of corrosion protection and solvent-free polyurethane coatings. In 1998 he moved to Barcelona/Spain for heading the technical service group construction materials for Iberia. Following a second international assignment in Pittsburgh/USA as a business development manager for concrete protection, 2002-2005, he headed the aromatic polyurethane flooring group in Leverkusen. Since March 2008 K. Wührer is the market development manager for construction within the business development group prepolymers.

Polyaspartics - Innovative binders for cost-effective coating concepts

Thomas Bäker (Bayer MaterialScience)

Thursday, 20 November, 13:30

Aspartics as secondary amines are binders for a high performance two-component top coat technology for high productivity applications. Polyaspartic are formed by the reaction of aspartics with aliphatic polyisocyanates. The reaction speed of both components can be controlled by the variation of the sterical hinderence of the amino-group in the chemical structure of the aspartic, leading to a wide range of pot live and curing conditions.

The polyaspartics technology allows the application of film builds up to 400 micrometer in one step. In particular in corrosion protection, industrial coatings and construction applications where high film builds are required, polyaspartics open possibilities to reduce the number of coats in a painting operation. In addition through the high speed of curing the productivity in painting operations is enhanced furthermore by running this technology.

Polyaspartics are characterized by a relatively low viscosity that allows the formulation of ultra high solids up to almost zero-VOC coatings. They are based on aliphatic components and lead to coatings of high weatherability, chemical and mechanical resistance. The polyaspartic technology has been growing significantly in many applications, where high performance coatings and cost effective concepts are required. The paper gives the current status and demonstrates the success of polyaspartics by illustration of selected case studies.



Thomas Bäker, born 1964, studied chemistry at the University of Paderborn. From 1989 to 1999 he worked for the paint industry on the development of automotive coatings. In 1999 he joined Bayer AG. Since 2007 he is Technical Manager Business Development Polyisocyanates for Industrial and Protective Coatings at the Business Unit CAS (Coatings, Adhesives and Specialities) of Bayer MaterialScience AG.

Intelligent surfaces via nanoparticles

Dr.-Ing. Wolfgang Beck (Panadur)

Thursday, 20 November, 14:00

Plastic is the material of the 21st Century. No new knowledge, but the potential offered by plastic, is not utilised yet. So far, in the paint segment it went primarily to create a decorative surface. The innovation of using nanoparticles in the patented PANADUR® IMC-system now allows a extensive functionalization of the surface, in addition to a higher weather- and UV-stability also improved a better fire protection, higher scratch resistance, better conductivity, but it also allows a high degree of sterility. The application and capabilities are endless.

Wolfgang Beck - Dr.-Ing., 58 years, electrician. Study: TU Dresden Electronics Technology 1971 -1975. After studying extensive activities in the field of research and development and rationalization in microelectronics. Since 1984: activities in upper management as director. Since 1995: development of specialty coatings for plastics with small particles. Since 5 years: working on application of nanoparticles for coatings of high-quality plastics in the function of a director. Today: managing director of the company PANADUR GmbH.



Baxxodur™ PC 136

Cycloaliphatic chain extender for polyurea and polyurethane spray elastomers

Baxxodur™ PC 136 is a cycloaliphatic secondary amine used as part of the curing system mostly in conjunction with polyetheramines.

Physical properties of Baxxodur™ PC 136

Appearance	clear colorless to slightly yellow liquid
Total amine	390 - 420 mg KOH/g
Primary amine	< 20 mg KOH/g
Density (25°C)	0.988 g/cm ³
Viscosity (25°C)	913 mPa s
Water content	< 0.5%
Flash point	210°C
AHEW	136 g/equiv.
Purity	≥ 95%

Curing compositions

The following compounds are widely used in the curing component depending on the intended use area and desired properties.

Polyetheramine D 2000	40 - 70% w/w
Polyetheramine T 5000	5 - 10% w/w (for high elasticity)
Polyetheramine D 400	5 - 10% w/w (for high hardness)
Dimethyldiaminodicyclohexylmethane	5 - 10% w/w (for high temperature)
Baxxodur™ PC 136	20 - 50% w/w

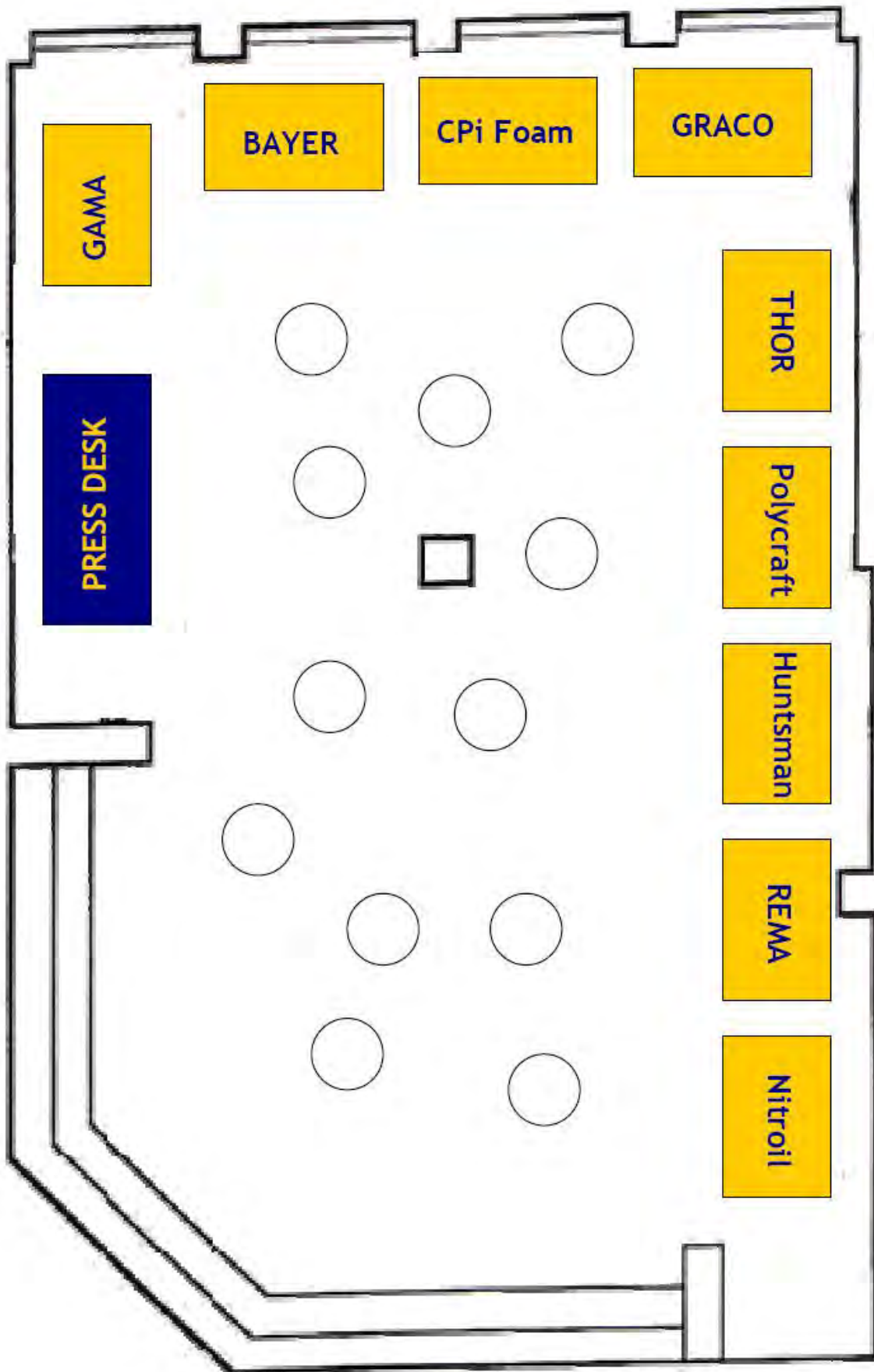
(Pigments, defoamers, flame retardants or other additives may also be part of the curing agent.)

Application data

The following data is given by way of example to illustrate the use and properties achievable with Baxxodur™ PC 136. Due to the varying areas of use and conditions of application, users will have to finetune their own formulas.

Results obtained with a 1:1 volume ratio of isocyanate and curing agent

Isocyanate	15% NCO IPDI-based quasi-prepolymer
Curing agent: Baxxodur™ PC 136	40%
Polyetheramine D 2000	43.5%
Polyetheramine D 400	10%
Gel time	5 - 6 sec
Tack free	9 - 11 sec
Hard set	2 - 3 min
90% property development	4 h
Tensile strength (ASTM D412)	11.17 MPa (1620 psi)
Elongation (ASTM D412)	160%
Shore D	40 - 45
Tg	80 - 90°C





Bayer MaterialScience

Bayer MaterialScience

Company: Bayer MaterialScience (BMS) is a renowned supplier of high-tech materials and innovative system solutions. Products with leading positions on the world market account for a major share of sales, in particular plastics and their precursors. Principal customers are the automotive and construction industries, the electrical/electronics sector and manufacturers of sports and leisure articles, packaging and medical equipment.

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CPI Foam

Company: Welcome to CPI, the #1 authorized Graco distributor for spray foam equipment worldwide. CPI is a dedicated specialty house catering to the unique needs of the spray foam insulation and roofing companies. CPI spray foam equipment is in service around the world. Our success is based on our first class service and support commitment. The CPI Experience. Business your way!

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GAMA

Company: GAMA manufactures and distributes equipment and accessories for the Urethane Industry. GAMA has a team of engineers and technicians with more than 20 years of experience in the Design and Manufacturing of PU High Performance Spray/Pour Machines. A solid project addressed to people and companies that require exclusiveness, functionality, quality, and reliable service, but not losing flexibility and adaptation capability to the constant market changes.

GAMA Products Line: High Tech Spray & Pour Equipment for Polyurethane Foam and Polyurea applications.

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GRACO



Company: Founded in 1926, GRACO is a world leader in fluid handling systems and components. GRACO products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, construction/renovation and industrial/automotive settings. GRACO's ongoing investment in fluid management and control continues to provide innovative solutions to a diverse global market. GRACO's European Headquarters are based in Maasmechelen, Eastern Belgium. Main activities include assembly, distribution, customer service, technical assistance, sales and marketing. GRACO employs about 160 people in Europe. We work with many distributors and service partners throughout Europe to guarantee customer satisfaction.

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Huntsman



Enriching lives through innovation

Company: Huntsman Performance Products is one of the world's largest manufacturers of amine products and offers a brand new technology to formulators wanting to modify the cure speed of polyurea and polyurethane-based systems to give their customers more open time and control for specialist coating, elastomer, adhesive and sealant applications.

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POLYCRAFT



Company: Polycraft GmbH was established in January 1989. As distributor for GUSMER Europe Polycraft was selling Gusmer PUR-Machines, Spare Parts, In-Field-Service and renting of PUR-Machines, as well as In-Field applications for PUR-Foams and Elastomers. In the year 2001 and expansion of the company took place by starting to develop, manufacture and sell heatable hoses for plural component equipment. We offer high quality heated hoses for standard and high pressure units for spray of PUR and Polyurea. Our heated-hoses are compatible and easy to hook on any machine such as Graco®, Gusmer®, Gama®, Glascraft®.

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www.polycraft.de



REMA TIP TOP

Company: REMA TIP TOP has more than 80 years experience in marketing of high quality products and first-class professional service for industrial applications. Throughout the world the name REMA TIP TOP has become synonymous with reliability, service and innovation. REMA TIP TOP GmbH operates as an independent company within the STAHLGRUBER Group. Polyurea-spray coatings complementing the product range of conventional hard and soft rubber linings, VE and EP based flake coatings and laminate linings as well as PU coatings for corrosion protection applications and can be used alternative to rubber components for wear protection of steel components.

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Thor

Company: Thor is a multinational manufacturer and distributor of biocides, flame retardants and other specialty and performance chemicals. At PDA Europe Conference, Thor will showcase its wide range of flame retardants based on phosphorus and nitrogen compounds, which can be used in polyurea and other thermoset resins. Please visit our tabletop at the exhibition area and discuss your needs with our FR experts.

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Nitroil

Company: Nitroil Polyurea is an ISO 9001 and 14001 certified manufacturer of amines / raw materials for coatings. In addition, Nitroil supplies versatile polyurea systems for wide-ranging applications in construction, corrosion protection and refinery, including biogas, sewage treatment and pipelines. With new 3 to 10 m³ blending reactors, toll production of polyurea compounds and private labelling complete the offered service for customers. Equipmentwise, specialty application equipment such as 360° or rotational spray heads for manholes and pipelines are offered beyond the Graco-Glascraft standard.

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Conference Registration

The Registration Desk is located on the ground floor of the Parkhotel Schönbrunn where participants can collect their conference bags and badges. If you wish to attend one of the Educational Courses, and you have not registered yet, you may do so at the Registration Desk, with payment by credit card only.

Opening hours:

Tuesday 18 November: 9:00 - 17:00

Wednesday 19 November: 07:30 - 17:00

Thursday 20 November: 07:30 - 08:30

Exhibition

The exhibition area is located in the Kaisersalon.

Exhibition times:

Wednesday 19 November: 10:00 - 10:30, 12:00 - 13:30, 15:00 - 15:30

Thursday 20 November: 12:30 - 13:30

Dinner Reception

The Dinner Reception on Wednesday 19 November will take place at the Fuhrgassl-Huber Winery, in a typical Austrian atmosphere. Buses will leave from the hotel entrance at 18:30. Any schedule changes will be posted at the Registration Desk.

Located in the heart of Neustift am Walde between vineyards and the Vienna Woods Ernst and Gerti Huber's Winery with its cosy parlours and romantic patio has been a popular wine tavern for almost 30 years.

Dress code: business casual.



Conference language

The official language of the PDA Europe 2008 Annual Conference is English.

Austria Trend Parkhotel Schönbrunn

Address: Hietzinger Hauptstr. 10-20, 1130 Vienna, Austria

Tel: +43 (1) 87 804

Check-in: 4 PM / Check-out: 12 PM

Parking: hotel garage - 140 places / 22 EUR/day

Taxi in Vienna

Radio taxi: 31 300, 40 100, 60 160

Starting rate during the day is 2.50 EUR; at night (11:00 pm - 6:00 am) and on Sundays and public holidays 2.60 EUR

From and to the airport, which is located outside of the city limits: surcharge 10 EUR

Emergency numbers

Ambulance: 114

Fire department: 122

European emergency number: 112

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Guidelines for PDA Europe members and conference participants on the application of anti-trust / competition rules to trade associations

1. Activities of trade associations must comply with the relevant competition/antitrust rules. The same basic principles that govern anti-competitive arrangements also apply when trade associations are used to co-ordinate commercial activities.
2. Violations of competition laws carry serious consequences. For example, the starting level for a cartel fine in the European Union (EU) is €20 million per company. This figure can be adjusted depending on the circumstances (up to a maximum of 10% of the annual turnover of the entire group to which that company belongs). Under EU law, it is also expressly provided that trade associations themselves can be made subject to a fine up to 10% of their turnover.
3. Competition/antitrust authorities in the U.S., the EU and elsewhere are focusing increasingly on the activities of trade associations. The suspicion is that such associations are a cover for cartel-like behaviour (e.g., price-fixing, collective discrimination, etc.)
4. International cooperation among antitrust enforcement authorities is also evident. It is no longer uncommon for governments - particularly the U.S., the EU, Canada and Japan - to coordinate simultaneous searches, service of subpoenas, and 'drop-in' interviews ('dawn raids') to avoid premature disclosure of an investigation and the possible destruction of evidence.
5. As with U.S. antitrust law, it is not necessary for arrangements violating EU competition rules to occur in the territory of the EU.
6. Equally important, competition concerns will also arise where there is no actual effect on competition in the market concerned. The authorities will intervene where they perceive there to be a potential effect, even where that effect is not intended.
7. In general, it should be borne in mind that competition/antitrust rules prohibit arrangements between competitors, which are intended (or have the effect) to achieve aims such as the following:
 - Price-fixing: almost any activity, which would allow its members to co-ordinate their pricing policies.
 - Market-sharing or customer allocation: activities aimed at dividing the given market concerned into distinct territorial markets or allocating customer groups.
 - Collective boycotts: a requirement to deal only with other members or to boycott other firms.
 - Information-exchange arrangements: in general, all exchanges of business information (such as pricing policies, costs or sales figures) between competitors, which would allow them to co-ordinate their commercial strategies.
8. In addition, certain types of activity particular to trade associations are subject of specific consideration including:
 - The setting of membership criteria of a trade association;
 - Research and development carried out or co-ordinated by a trade association;
 - Joint publicity and promotion of the generic products by a trade association; and
 - Product standardisation, certification and quality measures administered through trade associations.
9. This brief note and the "Dos" and "Don'ts" are intended to give general guidance only with regard to competition/antitrust laws. Before taking action, particularly regarding any assessment of risk, companies are advised to request specific advice from the relevant legal counsel.

The general “DOs”

- DO UNDERSTAND the purposes and authority of each PDA Europe group or activity in which you participate.
- DO INSIST that written agenda are prepared for all PDA Europe meetings, are circulated in advance and are adhered to during the meetings.
- DO APPOINT someone in attendance to take notes and prepare minutes at every PDA Europe meeting.
- DO OBJECT at any time when meeting minutes do not accurately reflect the matters, which transpired at the meeting.
- DO CONSULT with PDA Europe counsel and your company counsel on all antitrust/competition questions relating to PDA Europe meetings and activities.
- DO PROTEST against any discussions or meeting activities which appear to violate antitrust/competition laws.
- DO LEAVE any meeting at which you feel that matters discussed continue to raise competition concerns and request that your leaving be recorded in the minutes.
- DO ADVISE PDA Europe counsel of any activities in or surrounding PDA Europe meetings that might violate antitrust/competition laws.
- DO COMPETE vigorously and independently at all times.

The general “DON'Ts”

- DO NOT, in either fact or appearance, discuss or exchange comments or other information regarding:
 - Individual company prices, price changes, price differentials, mark-ups, discounts, allowances, credit terms, or related financial issues, data that bear on price (e.g., costs, production, capacity, inventories, sales), market shares etc.
 - Industry pricing policies, price levels, price changes, differentials, and the like.
 - Changes in industry production, capacity or inventories.
 - Bids on contracts for particular products and procedures for responding to bid invitations.
 - Plans of individual companies concerning the design, production, distribution or marketing of particular products, including proposed territories or customers.
 - Matters relating to potential individual suppliers that might give the effect either of excluding them from any market or of influencing the business conduct of firms toward such suppliers or customers.
- DO NOT, even in jest, discuss or exchange information regarding the above matters during social gatherings incidental to PDA Europe-sponsored meetings.
- DO NOT exchange commercially sensitive information.
- DO NOT engage in any conduct, which could be construed as designed to exclude competitors from the market or to create a barrier to entry onto the market.
- DO NOT meet without PDA Europe counsel present or without the prior approval of PDA Europe counsel.

The Polyurea Development Association Europe (PDA Europe) is the official trade association for the European Polyurea industry. Registered as an official, international not-for-profit association under Belgian law in June 2007, PDA Europe promotes the highest possible standards for polyurea. Leading experts from across Europe's chemical industry make up the membership base of PDA Europe providing expert advice on product quality. The association also offers best practice information on areas of environmental consideration and safety and provides an established networking forum for key industry players to discuss the future of the polyurea market.

PDA Europe commits itself:

- To pursue the interests of the European polyurea industry;
- To promote the exchange of ideas for the development of the highest standards and operating efficiency within the European polyurea industry;
- To develop methods for improving the conditions and advancing the best interests of the European polyurea industry;
- To create lasting good will between the members and those who manufacture, specify, apply and purchase polyurea materials and services all around Europe;
- To support and promote equal opportunity for all people within the industry, regardless of race, color, religion, sex or national origin.

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7. Actively contribute to the PDA Europe committees meetings and activities.
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