



RESINS – POLYOLS AND ASPARTICS FOR REACTION WITH POLYISOCYANATES: PRODUCTS AND APPLICATIONS



CONTENTS

Bayer MaterialScience SCIENCE FOR A BETTER LIFE	4
Business Unit CAS CLOSE TO THE CUSTOMER	5
Applications HIGHLIGHTS	6
Polyols THE REACTION PARTNERS	7
PRODUCT GRADES	
Polyester – solvent-free, linear, liquid	8–9
Polyester – solvent-free, linear, solid	8–9
Polyester – solvent-free, branched, hydrophobic	8–9
Polyester – solvent-free, branched, liquid	10–11
Polyester – solventborne, branched	12–13
Polyester – solventborne, branched, fatty acid modified	14–15
Polyether – diol	16–17
Polyether – triol	18–19
Polycarbonate – diol, liquid	20–21
Polycarbonate – diol, solid	20–21
NH-reactive resins	22–23
Non-functional resins	22–23
Legend	23
More than just products SUSTAINABILITY @ CAS	25
We are where you are GLOBAL PARTNERSHIPS	27

BAYER MATERIALSCIENCE

SCIENCE FOR A BETTER LIFE



Bayer MaterialScience – the name stands for the materials that the company develops and produces. Bayer MaterialScience also stands for the know-how and expertise of its employees all over the world. With growth products, excellent technologies and a well-stocked innovation pipeline, Bayer MaterialScience aims to extend its market leadership. In Pursuing this goal, our employees, society as a whole and the environment are accorded just as much importance as the well-being of the company.

Material: The materials we develop. For new products and new markets. With our expertise as innovator in polymer materials, we know how to turn innovations into real-world applications for our customers.

Science: The knowledge on which our work is based. Our intuitive feeling for research with perspective has developed over several decades. Together with a global network of interdisciplinary thinking, it provides the driving force for leading-edge, innovative and sustainable solutions.



BUSINESS UNIT CAS

CLOSE TO THE CUSTOMER



The Coatings, Adhesives, Specialties Business Unit (BU CAS) offers a comprehensive range of raw materials for system solutions in these sectors.

Our products are based primarily on polyurethane chemistry. Its outstanding expertise and long years of experience make Bayer MaterialScience one of the world's leading suppliers in this field.

CAS raw materials are used in wide range of applications. Products formulated with these materials protect aircraft, railcars, ships and even oil platforms against the effects of weather and corrosion. They also help ensure that red wine, cleaning agents and other "attackers" cannot harm furniture or parquet flooring. CAS raw materials can even be used to provide concrete with lasting protection against abrasion and weathering.

Another area of application for BU CAS products is the formulation of adhesives, in particular in the shoe, furniture, automotive and construction industries. We also offer sealant raw materials for use primarily in the construction industry.

In all the activities of the **Coatings, Adhesives, Specialties Business Unit (CAS)**, the customer is key. To enable it to offer the right solution for every field of application, CAS is focused

on the strategic segments: polyisocyanates and prepolymers, dispersions and UV systems. In each of these segments, customers can benefit from our wide-ranging experience and long-standing know-how. For us as technology leaders, the development of innovative solutions for and with our customers is one of our core competencies.

Thanks to our great innovative strength, we are not only naturally focused on the demands of existing markets, but also want to create and tap into new markets. Our success in this respect is based on intensive research work in our own modern laboratories and constant dialogue with our customers. Even though we discovered polyurethanes and are the technology leader for polyurethane-based coatings and adhesive raw materials, we are constantly working to expand and improve our unrivalled expertise.

We are wholeheartedly committed to developing solutions for and with our customers, and to delivering tailor-made products and pioneering process innovations.

This brochure contains a wealth of information about the wide variety of potential applications and products from the field of polyols as reaction partner for polyisocyanates.

APPLICATIONS
HIGHLIGHTS



... Parquet coatings



... Flexible adhesives



... Coatings for agricultural equipment



... Coatings for bridges



... Sealant applications



... Coatings for plastics



... Parking decks



... Coatings for glass



... Large vehicle coatings

POLYOLS

THE REACTION PARTNERS



Innovation is our tradition. With the breakthrough discovery of the polyisocyanate-poly-addition process in 1937 by Otto Bayer, Bayer became a pioneer of polyurethane chemistry. 50 years ago, Bayer AG developed the first applications using polyisocyanates for the coatings and adhesives sectors. Polyurethane systems – also known as “DD coatings” – have established themselves in a number of applications. We work closely with our customers to systematically advance the state of polyurethane technology. Using market-oriented research and development, we specifically adapt our product portfolio to the increasingly stringent requirements of our customers. We want to continue our successful journey along this path with you.

Acclaim® and Baycoll®

Acclaim® polyethers and Baycoll® polyesters are the strong partners of Desmodur®. The Acclaim® and Baycoll® portfolio has been specifically developed to meet the system requirements in the field of adhesive and sealant applications.

Impact technology, which is unique worldwide, enables polyether polyols to be produced in a process that is far more energy-efficient than conventional processes. This conservation of resources is a very important step with regard to the further development of sustainable production processes.

In addition, extremely long-chain polyethers can be obtained that are not accessible with conventional processes. These polyurethane building blocks can be used to formulate sealants with outstanding mechanical properties, for example.

Desmophen®

Desmophen®, Desmodur®'s other strong partner, has stood as a reliable brand name for high-quality polyurethane raw materials for many, many years. The impressive variety of product combinations allows almost unlimited design scope in the development of coating systems, casting systems and, of course, surface coatings. The legendary DD coatings are a perfect example. Our aim is to systematically expand these combination possibilities. In our product development activities, we take full account of changing market requirements as regards greater efficiency and improved quality.

This is demonstrated by the development of the Desmophen® NH polyaspartics. When combined with Desmodur® polyisocyanates, these result in high-quality polyurea systems that are also extremely efficient in final application.

The Desmophen® C polycarbonate diol product portfolio has been significantly expanded in response to the widespread demand for high-quality polyurethane raw materials. Desmophen® C is regarded in such applications as a formulation component and synthesis building block for the production of durable, weather-stable polyurethane systems.

About the brochure

The design of the brochure and the sorting of the products into the respective categories takes into account the trend towards high-solids and solvent-free polyurethane systems. The products are arranged under these headings according to the OH-content or OH-number, irrespective of the name. The technical data on the products are intended to provide a clear orientation. Further information can, of course, be obtained from the respective technical information sheets or be provided upon request.

 **DESMOPHEN®**

 **BAYCOLL®**

Polyester polyols based on a variety of building blocks can be used to formulate polyurethane compounds and systems with a wide range of properties.

Desmophen – polyester optimized for coating applications.

Baycoll – polyester designed for adhesives applications.

Polyester – solvent-free, linear, liquid

Product	Grade	Supply form solid content [%]	OH-content (supply form) [%] approx.	Viscosity [mPa·s] approx.
Desmophen® 1700	Linear polyester polyol	100	1.3	17,500
Desmophen® 1652	Linear polyester polyol	100	1.6	11,000
Baycoll® AD 2055	Linear polyester polyol	100	3.3	630
Baycoll® AD 2047	Linear polyester polyol	100	3.3	7,000
Baycoll® AD 1225	Linear polyester polyol	100	6.8	100
Desmophen® VPLS 2328	Linear, short-chain polyester polyol	100	8	800
Desmophen® 850	Linear polyester polyol	100	8.5	400

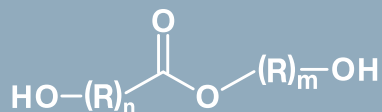
Polyester – solvent-free, linear, solid

Baycoll® AD 5027	Linear polyester polyol	100	0.9	2,800
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Polyol – solvent-free, branched, hydrophobic

Desmophen® 1150	Branched, polyester-polyether polyol	100	4.7	3,500
Desmophen® 1155	Branched, polyester-polyether polyol	100	5	425
Desmophen® 1145	Branched, polyester-polyether polyol	100	7.1	3,000

* ali = aliphatic
aro = aromatic



At temp. [°C]	Main characteristic building blocks*	Properties & application
23	ali	Flexibilizing resin to improve toughness, durability and abrasion resistance of furniture, floor and parquet coatings
23	ali	Polyol for flexible sealants; also for plastics coatings incl. soft-touch
75	ali	Flexible packaging, adhesion (+), hydrolysis resistance (++) , slip agent compability (+++)
75	ali/aro	Flexible packaging, adhesion (+++), hydrolysis resistance (++) , slip agent compability (+++), viscosity (-)
75	ali	Flexible packaging, hydrolysis resistance (++) , slip agent compability (+++), viscosity at RT (+), odor (-)
23	ali	For highly elastic PU coatings; also in combination with harder Desmophen® products as a flexibilizing component in 2K-PU systems; transparent cast systems
75	ali/aro	In combination with other Desmophen® products for 2K-PU coatings
75	ali	Flexible packaging, adhesion (+), PVC (+++), hydrolysis resistance (++) , slip agent compability (--), hotmelt
23	ali	Hydrophobic universal polyol for medium-hard coatings for concrete, steel and anti-corrosion applications
23	ali	Flexibilizing reactive thinner for Desmophen® 1145, 1150 or other Desmophen grades
23	ali	Polyol for coatings, membranes and synthetic resin mortars

 **DESMOPHEN®**

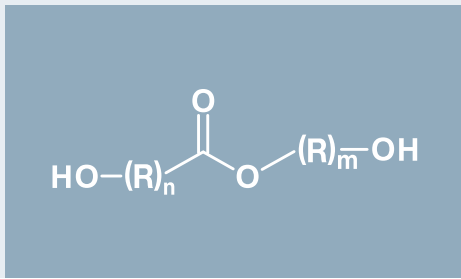
Branched Polyester grades for an optimized polyurethane network.

 **BAYCOLL®**

Polyester – solvent-free, branched, liquid

Product	Grade	Supply form solid content [%]	OH-content (supply form) [%] approx.	Viscosity [mPa·s] approx.
Desmophen® 1800	Slightly branched polyester polyol	100	1.8	21,500
Baycoll® AS 2060	Branched polyester polyol	100	1.9	1,000
Baycoll® AV 2113	Branched polyester polyol	100	3.3	650
Desmophen® 670	Slightly branched polyester polyol	100	4.3	3,100
Desmophen® 1200	Slightly branched polyester polyol	100	5	450
Desmophen® VPLS 2068	Slightly branched polyester polyol	100	5.4	950
Desmophen® 1100	Branched polyester polyol	100	6.5	650
Desmophen® 2400 S	Highly branched polyester polyol	100	6.6	30,500
Desmophen® 2450 X	Branched polyester polyol	100	6.6	20,000
Desmophen® 800	Highly branched polyester polyol	100	8.6	1,900
Desmophen® VPLS 2249/1	Highly branched, short-chain polyester polyol	100	15.5	1,900

* ali = aliphatic
aro = aromatic



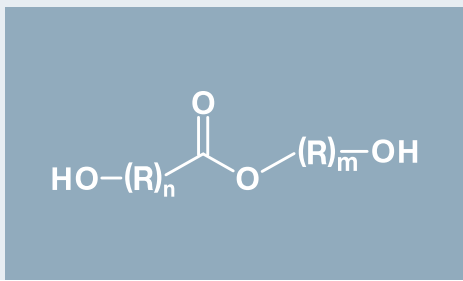
At temp. [°C]	Main characteristic building blocks*	Properties & application
23	ali	For highly elastic coatings for rubber and plastic articles; also for elastic high-build, textile and hose coatings
75	ali	Flexible packaging, compatibility (-)
75	ali/aro	PVC adhesion, hydrolysis resistance (++) , slip agent compatibility (+)
75	ali/aro	For flexible, weather-stable and colorfast coatings, especially for plastics; for the flexibilization of hard Desmophen® products
75	ali/aro	Mixed with highly branched Desmophen® products and in combination with Desmodur® L, HL, IL or N in 2K-PU coatings for wood and various plastics
23	ali	Hydrophobic, low-viscosity polyol for e.g. floor coatings
75	ali/aro	Mixed with highly branched Desmophen® products and in combination with Desmodur® L, HL, IL or N in 2K-PU coatings for wood and various plastics
23	ali/aro	Flexible packaging, adhesion (+), slip agent compatibility (+)
23	ali/aro	Combination resin to adjust flexibility and hardness
75	ali/aro	For air-drying 2K coatings yielding hard, chemically resistant films; high impact resistance, toughness and abrasion resistance; in combination with Desmophen® 1100 for highly abrasion-resistant floor coatings
23	ali	Polyol for aliphatic, solvent-free coatings, e.g. decorative floors and transparent cast systems



Polyester – solventborne, branched

Product	Grade	Supply form solid content [%]	OH-content (supply form) [%] approx.	Viscosity [mPa·s] approx.
Desmophen® 690 MPA	Branched polyester polyol	70 MPA	1.4	10,000
Desmophen® T 1665 SN/IB	Slightly branched polyester polyol	65 SN/IB	1.7	2,700
Desmophen® 680 X	Branched polyester polyol	60 X	1.8	2,750
Desmophen® T 1775 SN	Slightly branched polyester polyol	75 SN	2	3,700
Desmophen® 680 BA	Branched polyester polyol	70 BA	2.2	3,000
Desmophen® T 2082	Slightly branched polyester polyol	80 BA/IB	2.7	9,000
Desmophen® T XP 2374	Branched polyester polyol	80 BA/IB	2.8	6,500
Desmophen® 670 BA	Slightly branched polyester polyol	80 BA	3.5	2,800
Desmophen® VP LS 2388	Slightly branched polyester polyol	80 MPA	3.8	3,000
Desmophen® 650 MPA	Branched polyester polyol	65 MPA	5.3	20,000
Desmophen® 651 MPA	Branched polyester polyol	65 MPA	5.5	14,500
Desmophen® 651 MPA/X	Branched polyester polyol	65 MPA/X	5.5	25,000
Desmophen® 800 BA	Highly branched polyester polyol	85 BA	7.3	3,500
Desmophen® 800 MPA	Highly branched polyester polyol	85 MPA	7.3	11,000

* ali = aliphatic
aro = aromatic



At temp. [°C] Main characteristic building blocks * Properties & application

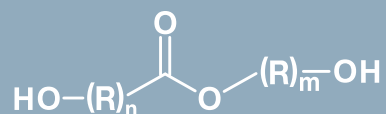
23	ali/aro	Weather-stable and colorfast specialty resin, e.g. to improve adhesion on PVC
23	ali/aro	Combination resin for baking primers, automotive primer surfacers, can/coil coatings and industrial coatings with very good weather stability
23	ali/aro	For fast-drying, weather-stable coatings, especially for industrial and transportation applications
23	ali/aro	Co-reactant for blocked polyisocyanates for can/coil and industrial coatings
23	ali/aro	For fast-drying, weather-stable coatings, especially for industrial and transportation applications
23	ali/aro	High-solids polyester for baking primers and primer surfacers with good stone-chip resistance
23	ali/aro	High-solids polyester for baking primers and primer surfacers with good stone-chip resistance
23	ali/aro	For flexible, weather-stable and colorfast coatings, especially for plastics; for the flexibilization of hard Desmophen® products
23	ali/aro	For flexible 2K-PU coatings with QUV stability (UV-B) and chemical resistance, especially for plastics; for flexibilizing hard Desmophen® products
23	ali/aro	For weather-stable, colorfast and chemically resistant coatings, primarily for transportation and aircraft applications and high-grade industrial finishing
23	ali/aro	Properties largely comparable with Desmophen® 650; better compatibility with other binders in aromatic solvents; for barrier coating of tropical woods
23	ali/aro	Properties largely comparable with Desmophen® 650; better compatibility with other binders in aromatic solvents; for barrier coating of tropical woods
23	ali/aro	For air-drying 2K coatings yielding hard, chemically resistant films; high impact resistance, toughness and abrasion resistance; in combination with Desmophen® 1100 for highly abrasion-resistant floor coatings
23	ali/aro	For air-drying 2K coatings yielding hard, chemically resistant films; high impact resistance, toughness and abrasion resistance; in combination with Desmophen® 1100 for highly abrasion-resistant floor coatings



Polyester – solventborne, branched, fatty acid modified

Product	Grade	Supply form solid content [%]	OH-content (supply form) [%] approx.	Viscosity [mPa·s] approx.
Desmophen® PL 800	Fatty acid modified branched polyester polyol	70 X	2.5	1,500
Desmophen® PL 300 X	Fatty acid modified branched polyester polyol	60 X	2.7	5,350
Desmophen® 1300 EA	Fatty acid modified branched polyester polyol	70 EA	3	300
Desmophen® 1300 BA	Fatty acid modified branched polyester polyol	75 BA	3.2	1,000
Desmophen® 1300 X	Fatty acid modified branched polyester polyol	75 X	3.2	3,450
Desmophen® 1400 PR	Fatty acid modified branched polyester polyol	75 MIBK	3.2	13,000
Desmophen® PL 817	Fatty acid modified branched polyester polyol	75 X/MEK	3.3	10,000
Desmophen® 1388 71 EA	Fatty acid modified branched polyester polyol	71 EA	4.7	950

* ali = aliphatic
aro = aromatic



At temp. [°C]	Main characteristic building blocks*	Properties & application
23	ali/aro	Low molecular weight polyester, good pigment wetting, gloss
23	ali/aro	Reactive polyester, air-drying 2K-PU coating; especially for wood in combination with Desmodur® L, IL grades
23	ali/aro	For fast-drying 2K coatings for wood, chipboard and fiberboard; for clear and pigmented primers, primer surfacers and topcoats
23	ali/aro	For fast-drying 2K coatings for wood, chipboard and fiberboard; for clear and pigmented primers, primer surfacers and topcoats
23	ali/aro	For fast-drying 2K coatings for wood, chipboard and fiberboard; for clear and pigmented primers, primer surfacers and topcoats
23	ali/aro	For highly reactive wood coatings with good matting properties and high film hardness
23	ali/aro	Non-drying, in combination with other resins, good hardness and for dull finish top coat
23	ali/aro	Improved hardness, for 2K-PU coatings for wood in combination with Desmodur IL, L or N grades

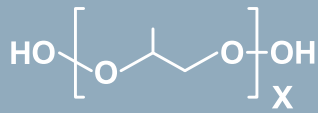
 **DESMOPHEN®** **ACCLAIM®**

Building blocks with advantages in hydrolysis resistance and flexibility.
The Impact catalytic process delivers nearly perfect products, even in unusual molecular weight ranges.

Polyether – diol **

Product	OH-number [mg KOH/g] approx.	Molecular weight [g/mol] approx.
Desmophen® 1262 BD	260	430
Desmophen® L 300	190	590
Desmophen® 1110 BD	112	1,000
Desmophen® 1111 BD	112	1,000
Desmophen® 2061 BD	56	2,000
Desmophen® 2060 BD	56	2,000
Desmophen® 4028 BD	28.5	3,950
Desmophen® 5168 T	28	4,000
Acclaim® Polyol 4200	28	4,000
Acclaim® Polyol 8200 N	14	8,000
Acclaim® Polyol 12200 N	10	11,200
Acclaim® Polyol 18200 N	7	17,300
Acclaim® Polyol 22200 N	5	22,000

** These products represent only an assortment of the complete polyether portfolio.
Additional polyether products can be found e.g. on the BMS-CAS internet homepage:
www.bayercoatings.com



Viscosity at 25 °C
[mPa·s]
approx.

Properties & application

70	Flexible packaging, low molecular weight product
120	Flexible packaging + EO tipped
140	Flexible packaging
155	Flexible packaging, odorless, compatibility (++)
345	Sealants, flexible packaging, odorless, compatibility (++)
310	Sealants, flexible packaging, compatibility (++)
870	Sealants, flexible packaging, compatibility with PMDI (++) + EO tipped
870	Sealants, flexible packaging, compatibility with PMDI (++) + EO tipped
980	Sealants, flexible packaging, compatibility (++)
2,850	Sealants
6,000	Sealants
23,000	Sealants
34,000	Sealants



DESMOPHEN®

Branched polyether grades for improving the properties of PU systems.

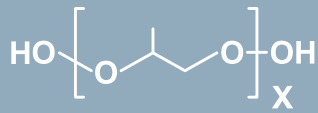


ACCLAIM®

Polyether – triol **

Product	OH-number [mg KOH/g] approx.	Molecular weight [g/mol] approx.
Desmophen® 4011T	550	300
Desmophen® 1400 BT	400	420
Desmophen® 1380 BT	385	440
Desmophen® 28HS98	233	720
Desmophen® 3061 BT	56	3,000
Baygal® 70RE30	56	3,000
Desmophen® 5034 BT	35	4,800
Desmophen® 5035 BT	35	4,800
Acclaim® Polyol 6300	28	6,000

** These products represent only a selection of the complete polyether portfolio.
Additional polyether products can be found on the BU-CAS Internet homepage:
www.bayercoatings.com



Viscosity at 25 °C
[mPa·s]
approx.

Properties & application

1,800

370

Flexible packaging, compatibility (++), long pot life, short reaction time

600

For solvent-free coatings with good chemical resistance

250

500

Sealants, flexible packaging

480

860

Sealants, flexible packaging, standard polyether for 1- and 2-component systems

860

For flexible coatings and surface membranes; flexible packaging, 2-component systems

1,500

Sealants



DESMOPHEN® C

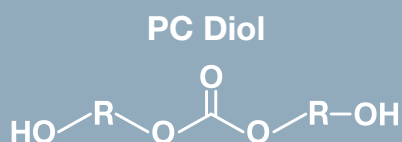
Desmophen C - where softness and toughness meet. Flexibility combined with high-end resistance to improve PU systems with respect to hydrolysis, oxidative and thermal impacts.

Polycarbonate – diol, liquid

	Grade	Supply form solid content [%]	OH-content (supply form) [%] approx.	Viscosity [mPa·s] approx.
Desmophen® C 1100	Polyester-polycarbonate diol	100	3.3	3,200
Desmophen® C 1200	Polyester-polycarbonate diol	100	1.7	16,500
Desmophen® C 3100 XP	PUe polycarbonate diol	100	3.3	400
Desmophen® C 3200 XP	PUe polycarbonate diol	100	1.7	2,200
Desmophen® C XP 2716	PUe polycarbonate diol	100	5.2	4,000

Polycarbonate – diol, solid

Desmophen® C 2100	PUe polycarbonate diol	100	3.3	410
Desmophen® C 2200	PUe polycarbonate diol	100	1.7	2,300
Desmophen® C XP 2613	PUe polycarbonate diol	100	1.7	15,000



At temp. °C	Equivalent weight approx.	Properties & application
23	500	Low viscous grade, good compatibility, building block for polymer synthesis, flexible and weather-stable sealants and coatings; cast systems, soft-touch and self-healing
23	1,000	Low viscous grade, good compatibility, building block for polymer synthesis, flexible and weather-stable sealants and coatings; cast systems, soft-touch and self-healing
75	500	Better solvent compability, building block for polymer synthesis, flexible and weather-stable sealants and coatings; cast systems, soft-touch and self-healing
75	1,000	Better solvent compability, building block for polymer synthesis, flexible and weather-stable sealants and coatings; cast systems, softtouch and self-healing
23	350	Low molecular weight, low viscosity, building block for polymer synthesis, flexible and weather-stable sealants and coatings; cast systems, soft-touch and self-healing
<hr/>		
75	500	Building block for polymer synthesis, flexible and weather-stable sealants and coatings; cast systems, soft-touch and self-healing
75	1,000	Building block for polymer synthesis, flexible and weather-stable sealants and coatings; cast systems, soft-touch and self-healing
23	1,000	Partial liquid, building block for polymer synthesis, flexible and weather-stable sealants and coatings; cast systems, soft-touch and self-healing





DESMOPHEN® NH

The remarkable building block tool box for highly efficient 2K polyaspartic systems – at last a versatile, lightfast polyurea system.



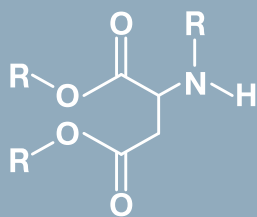
DESMOLAC®

NH-reactive resins, Aspartics for Coatings

	Grade	Supply form solid content [%]	OH-content (supply form) [%] approx.	Viscosity [mPa·s] approx.
Desmophen® NH 1220	Aspartic	100	–	100
Desmophen® NH 1420	Aspartic	100	–	1,500
Desmophen® NH 1520	Aspartic	100	–	1,500
Desmophen® NH 1521	Aspartic	90 BA	–	160

Non-functional resins

Desmolac® 4340 X/IB	Non-reactive linear polyurethane based on IPDI	40 X/IB	–	7,500
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At temp. °C	Equivalent weight approx.	Properties & application
23	234	As binder or reactive thinner for very high-solids 2K-PU coatings (for putty and elastomers), building block for polyaspartics (lightfast polyurea, high reactivity)
23	276	As binder or reactive thinner for very high-solids 2K-PU coatings (for topcoats), building block for polyaspartics (lightfast polyurea, moderate reactivity)
23	290	As binder or reactive thinner for very high-solids 2K-PU coatings (for topcoats), building block for polyaspartics (lightfast polyurea, low reactivity)
23	326	As binder or reactive thinner for very high-solids 2K-PU coatings (for clear- and topcoats), building block for polyaspartics (lightfast polyurea, low reactivity)
23	–	Alone or in combination with polyisocyanates for primers or finishers for flexible substrates

Legend: EA = Ethyl acetate
 BA = Butyl acetate
 MPA = Methoxy propyl acetate
 SN = Solvent naphtha
 IB = Isobutanol
 X = Xylene
 MIBK = Methyl isobutyl ketone
 MEK = Methyl ethyl ketone



MORE THAN JUST PRODUCTS

SUSTAINABILITY @ CAS



BAYER IS COMMITTED TO THE PRINCIPLES OF SUSTAINABLE DEVELOPMENT.

We want to fulfill this commitment in three areas: products and innovations, business practices and corporate social responsibility.

Innovations are the driver of sustainability in the CAS Business Unit. Our raw materials make more sustainable and durable solutions possible in our end user's products. This especially applies to green house gas emissions, health protection and energy consumption.

We focus our developments on advanced product technologies that are safe in their application and environmentally friendly: waterborne products, solvent-free products and those with a high solid content. The emphasis here is on products with a very low rate of residual monomers or volatile substances.



Our product range already included products based on biomaterials and we are now investigating the potential of renewable resources for new high-performance products while also taking ethical standards into account.

In production our priority is on occupational health and safety as well as energy- and resource-saving processes.

Our main aim is to conduct our business successfully and sustainably. For us this means achieving commercial success on the basis of sound business models and in a way that is compatible with the needs of our employees and society, protects the environment and preserves our natural resources.



WE ARE WHERE YOU ARE

GLOBAL PARTNERSHIPS



Our global presence also means local presence. You can rely on us wherever in the world you are thanks to our global supply chain management. With production sites in most of the world's strategically important regions, we aim for short lead times and short routes to your production site. Our quality, fast application support and expert advice are available to you wherever you are.



Success is also dependent on the right timing. Speed, flexibility, fast development in response to market requests, efficient production and delivery – we will help you to deliver these crucial factors.



Because your success is ours as well.





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