

Polyols & Aspartics for Reaction with Polyisocyanates

Nonreactive Resins

Desmophen[®] Baycoll[®] Acclaim[®] Desmolac[®] Desmocoll[®] Cardyon[®] Desmomelt[®] Pergut[®]





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Building a circular future, together.

The demand for more circular solutions is rising at a faster pace than ever before as the world collectively strives to tackle today's global challenges. Climate change, population growth, urbanization, digitalization and mobility are pushing players from every sector to find more sustainable solutions and lay the foundations for climate neutrality by driving a Circular Economy. The challenge is not only to create these circular solutions but also to maintain quality, durability and productivity.

Innovation is key to satisfying these demands and creating added value for customers, society and the environment by turning targets into realities. At Covestro, our long-standing expertise in aliphatic and aromatic polyisocyanates and more sustainable resins goes hand-in-hand with our purpose of constantly pushing boundaries in the search for future-oriented

solutions. Through joint solutions, alternative raw materials, innovative recycling, and harnessing renewable energy, we're enabling coatings and adhesives producers to meet the circular challenge, here and now.

We're expanding our portfolio to include bio-based or recycled raw materials in coatings, adhesives, and specialty areas ranging from cosmetics to textiles to 3D printing. Thanks to our mass balancing approach, we're helping close the loop by gradually replacing fossil fuels with ISCC-certified renewable resources. Our drop-in solutions ensure the high quality, consistent performance and easy processing that keep your production running smoothly. And we're constantly working to provide the global support, facilities and supply chain security you need to forge yet more circular innovations in infrastructure, automotive, furniture and more.

Material solutions can help turn circular targets into realities. Let's make the world a brighter place, together.





Efficiency meets sustainability.

Solutions to enhance your process efficiency

Nowadays, the quality standards made on industrial processes are very high. This is equally true of the cost-cutting requirements. However, both goals can be achieved by increasing process efficiency. At Covestro, we have a wide range of solutions designed to enhance your process efficiency. Why not take advantage of our know-how? These solutions will benefit your bottom line.

Sustainability

Sustainability is at the heart of the Covestro strategy. We inspire innovation and drive growth through profitable products and technologies that benefit society and reduce the impact on the environment.

Our coatings, adhesives and specialty products and solutions contribute to sustainability through:

· Saving energy - fast and smart

Polyurethane systems represent a benchmark in productivity and process efficiency in many industries. We strive to further push the limits of efficiency by developing game-changing new solutions.



Reducing waste

We offer solutions such as innovative 1K technologies that enable our value chain partners to use materials more efficiently and reduce waste.

Cutting emissions

Bayhydur® and **Desmodur**® grades are key enablers for low-emission solutions in the coatings and adhesives industries – waterborne and high solids/100% solids!

Responsible management of natural resources

Highly durable PU-based coatings and adhesives significantly extend the lifetime of a coated product and thus help to prolong resource use.

Closing the loop (circularity)

Through economically viable products made from partly bio-based raw materials – with no deterioration in performance – we help our customers and value chain partners to reduce their carbon footprint and offer solutions that incorporate renewable building blocks.

Food contact

Any information about food or drinking water contact for products exclusively refers to the regulation quoted in the table: please request a Declaration of Compliance before use. For any uses which require compliance with another jurisdiction or national legislation, the appropriate legal assessment needs to be performed prior to any application of a product in the field.



The reaction partners

Pioneering polyurethane chemistry

Ever since Otto Bayer's discovery of the polyisocyanate-polyaddition process in 1937, Bayer – now Covestro – has pioneered polyurethane chemistry. Seventy years ago, Bayer - now Covestro developed the first applications using polyisocyanates for the coatings and adhesives sectors. We work closely with our customers to systematically advance the state of the art in polyurethane technology. Using market-oriented research and development, we specifically adapt our product portfolio to our customers' increasingly stringent requirements. Together with you, we want to continue our successful journey along this path.

Acclaim® and Baycoll®

Acclaim® polyethers and Baycoll® polyesters are powerful combination partners for **Desmodur**®. The Acclaim® and Baycoll® portfolio has been specifically developed to meet system requirements in the field of adhesive and sealant applications. The unique impact technology 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 in the further development of sustainable production. In addition,

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

Desmophen®

Desmophen®, the other powerful combination partner for **Desmodur**®, has stood for reliable, highquality polyurethane raw materials for decades. An impressive variety of product combinations allows almost unlimited design scope in the development of coating systems, casting systems and, of course, surface coatings. Our aim is to systematically expand these combination possibilities. In our product development activities, we take full account of changing market demands for greater efficiency and improved quality. This is demonstrated by the development of the **Desmophen® NH** polyaspartics. When combined with **Desmodur**® polyisocyanates, the outcome is high-quality polyurea systems that are also extremely efficient in the final application. The **Desmophen® C** polycarbonate diol product portfolio has been 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.

How to find the product you need

The design of the brochure and the arrangement of the products into the respective categories take into account the trend towards high solids and 100% solids polyurethane systems. The products are arranged under these headings according to their OH content or OH number, irrespective of the name. The technical product data are intended to provide clear orientation. Additional information can, of course, be obtained from the respective technical information sheets or provided on request.



Desmophen® VPLS 2328

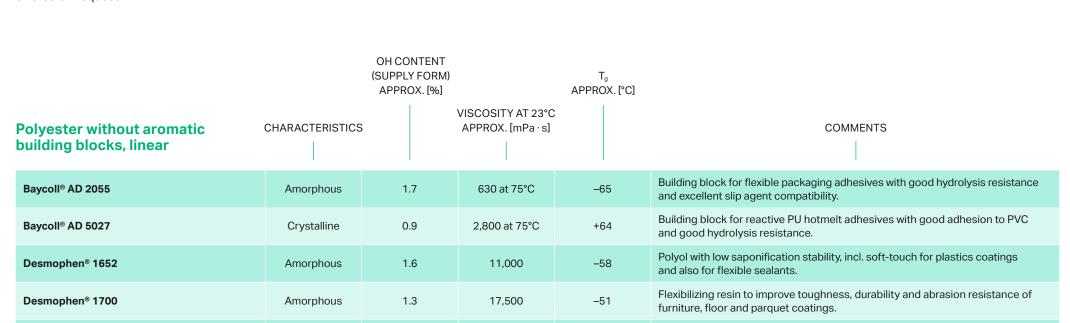
Polyester polyols based on a variety of building blocks can be used to formulate polyurethane compounds and systems with a wide range of properties. The listed products represent a selection only:

- **Desmophen**® polyester optimized for coating applications
- Baycoll® polyester designed for adhesive applications

Many additional polyesters are furthermore available, e.g., to be used as building blocks. They can be offered on request.

Amorphous

8.0



800

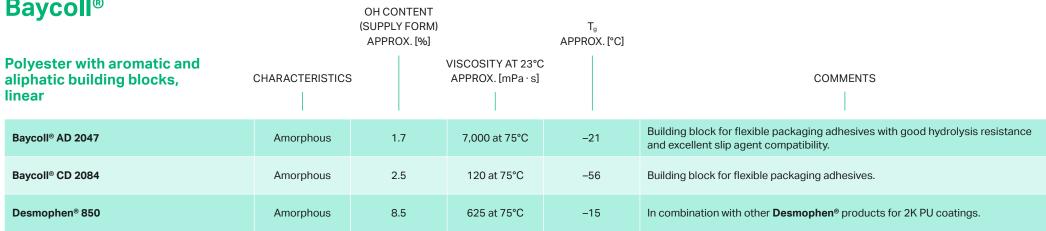
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In combination with hard **Desmophen®** products as a flexibilizing component in 2K

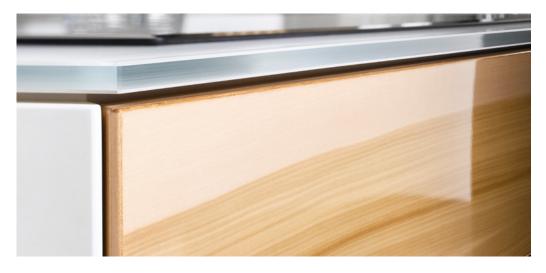
PU systems, transparent cast systems. Also for highly elastic PU coatings.





Branched polyester grades for an optimized polyurethane network.

		OH CONTENT (SUPPLY FORM) APPROX. [%]		T _g APPROX. [°C]	
Polyester without aroma building blocks, branche liquid			VISCOSITY AT 23°C APPROX. [mPa·s]		COMMENTS
Desmophen® 1800	Slightly branched polyester polyol	1.8	21,500	-52	For highly elastic coatings for rubber and plastic articles, also for elastic high-build, textile and hose coatings, for combination with Desmodur® L .
Desmophen® 2015 W	Slightly branched polyester polyol	1.8	1,000 at 75°C	-52	Modification of Desmophen® 1800 . For flexible coatings in combination with Desmodur® L or N .
Desmophen® VPLS 2249/1	Branched, short-chain polyester polyol	15.5	1,900	-47	Polyol for hardening component in weather-stable polyurethane systems and transparent cast systems for aliphatic, 100 % solid coatings.
Desmophen® XP 2488	Branched polyester polyol	16.0	12,250	-57	For 100% solid coatings, e.g., in-mould coatings and very high solids 2K PU coatings.





		OH CONTENT (SUPPLY FORM) APPROX. [%]		T _g APPROX. [°C]	
Polyester with aromatic and aliphatic building blocks, branched, liquid	GRADE		VISCOSITY AT 23°C APPROX. [mPa·s]		COMMENTS
Baycoll® AV 2113	Highly branched polyester polyol	3.3	650 at 75°C	- 59	Building block for PU adhesives with excellent PVC adhesion and good hydrolysis resistance.
Desmophen® 670	Slightly branched polyester polyol	4.3	2,200 (80% in BA)	-29	For the flexibilization of hard Desmophen® products. For flexible, corrosion protection, weather-stable and colorfast coatings, especially for plastics.
Desmophen® 800	Highly branched polyester polyol	8.6	850 (70% in MPA)	-32	Polyol for yielding hard, chemically resistant films, high impact resistance, toughness and abrasion resistance for air-drying 2K coatings.
Desmophen® 1100	Branched polyester polyol	6.5	30,500	-42	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.
Desmophen® 1200	Slightly branched polyester polyol	5.0	23,500	-42	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.





Desmophen®

Branched, solvent-borne polyester grades for numerous highperformance coating applications; supplied in suitable solvent grades for various application techniques.

GRADE

Polyester with aromatic and aliphatic building blocks – solvent-borne, branched

OH CONTENT
(SUPPLY FORM)

SUPPLY FORM
SOLID CONTENT
APPROX. [%]

APPROX. [%]

VISCOSITY AT 23°C
APPROX. [mPa·s]





COMMENTS	6
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Desmophen® 631 MPA	Branched polyester polyol	75 in MPA	6.4	19,500	-23	For QUV stability (UV-B) and chemical resistance, for flexible 2K PU coatings especially for plastics, for flexibilizing of hard Desmophen® products.
Desmophen® 650 MPA	Branched polyester polyol	65 in MPA	5.3	20,000	+48	For weather-stable, corrosion protection, colorfast and chemically resistant coatings, primarily for transportation and aircraft applications and high-grade industrial finishing.
Desmophen® 651 MPA	Branched polyester polyol	65 in MPA	5.5	14,500	+48	Properties largely comparable with Desmophen® 650 , better compatibility with other binders in aromatic solvents, for barrier coating on tropical woods.
Desmophen® 651 MPA/X	Branched polyester polyol	67 in MPA/X	5.5	25,000	+48	Properties largely comparable with Desmophen® 650 , better compatibility with other binders in aromatic solvents, for barrier coating on tropical woods.
Desmophen® 670 BA	Slightly branched polyester polyol	80 in BA	3.5	3,000	-21	For very good weather stabibility and excellent for low temperature curing, especially for plastics or for flexibilizing of hard Desmophen ® products.
Desmophen® 680 BA	Branched polyester polyol	70 in BA	2.2	3,000	+20	For fast-drying, weather-stable coatings, especially for industrial and transportation applications.
Desmophen® 680 X	Branched polyester polyol	60 in X	1.8	2,750	+20	For fast-drying, weather-stable coatings, especially for industrial and transportation applications.
Desmophen® 690 MPA	Branched polyester polyol	70 in MPA	1.4	10,000	+42	Weather-stable and colorfast specialty resin, e.g., to improve adhesion on PVC.
Desmophen® 800 BA	Highly branched polyester polyol	80 in BA	6.9	3,500	-24	Supply form Desmophen® 800 .
Desmophen® 800 MPA	Highly branched polyester polyol	85 in MPA	7.5	11,000	-24	Supply form Desmophen® 800 .
Desmophen® T 1665 SN/IB	Slightly branched polyester polyol	65 in SN/IB	1.7	2,700	+16	Oil-free, hydroxyl-bearing, saturated polyester with good weather stability for baking primers, automotive primer surfacers, can/coil coatings and industrial coatings, intended for the combination with flexible hardeners.

Desmophen®

Highly branched, solvent-borne polyester grades for numerous high-performance coating applications; supplied in suitable solvent grades for various application techniques.





Polyester with aliphatic building blocks – solvent-borne, branche		SUPPLY FORM SOLID CONTENT APPROX. [%]	OH CONTENT (SUPPLY FORM) APPROX. [%]	VISCOSITY AT 23°C APPROX. [mPa·s]	T _g APPROX. [°C]	COMMENTS
Desmophen® 775 XP	Branched polyester polyol	75 in BA	9.5	5,000	-17	High solid version of Desmophen® 650 with improved chemical resistance and better yellowing resistance upon weathering.
Desmophen® T 1777 SN	Slightly branched polyester polyol	77 in SN	2.0	5,500	-14	Oil-free, hydroxyl-bearing, polyester for thermally activated polyurethane hardener for can/coil coatings and industrial coatings.
Desmophen® VPLS 2089	Branched polyester polyol	75 in BA	6.0	10,000	+15	In combination with Desmodur® N 75 , ultra N 3390 and ultra N 3600 very good weathering properties and gloss retention, due to the high crosslinking ratio good solvent and chemical resistance.
Desmophen® VP LS 2388	Slightly branched polyester polyol	80 in BA	3.8	3,000	-21	Polyester with QUV stability (UV-B) and chemical resistance, for flexible 2K PU coatings especially for plastics, for flexibilizing of hard Desmophen® products.

Desmophen®

Fatty acid-modified polyester grades for improved compatibility.



Polyester with aromatic a aliphatic building blocks solvent-borne, branched, fatty acid-modified	-	OH CONTENT (SUPPLY FORM) APPROX. [%]	VISCOSITY AT 23°C APPROX. [mPa·s]	Tg APPROX. [°C]	COMMENTS
Desmophen® PL 300 X	60 in X	2.7	5,350	-4	Reactive polyester for air-drying 2K PU coating, especially for wood in combination with Desmodur® L and IL grades.
Desmophen® PL 800	70 in X	2.5	1,500	-16	Low-molecular-weight polyester, good pigment wetting, gloss.
Desmophen® PL 817	75 in X/MEK	3.3	10,000	-4	Non-drying, in combination with other resins, good hardness and for matte finish top coat.
Desmophen® 881 X	75 in X	3.6	12,500	+3	Combination resin to achieve high-gloss formulations, very good pigment wetting, use in pigment pastes. Co-reactant for polyisocyanates in the formulation of air-drying two-pack coatings.
Desmophen® 1300 EA	70 in EA	3.0	300	-13	
Desmophen® 1300 BA	75 in BA	3.2	1,000	-13	For fast-drying 2K coatings for wood, chipboard and fiberboard, for clear and pigmented primers, primer surfacers and topcoats.
Desmophen® 1300 X	75 in X	3.2	3,450	-13	
Desmophen® 1388 EA	71 in EA	4.7	950	+ 2	Improved hardness, for 2K PU coatings for wood in combination with Desmodur® IL, L or N grades.

Desmophen® Acclaim®

Linear building blocks for NCO and silane-terminated prepolymers suitable for adhesives and sealants with advantages in hydrolysis resistance and flexibility. These high-performance, low-monol polyether polyols are prepared using Covestro's proprietary IMPACT™ technology, using a patented organo-metallic propoxylation catalyst.





Polyether – diol*	OH NUMBER APPROX. [mg KOH/g]	MOLECULAR WEIGHT APPROX. [g/mol]	VISCOSITY AT 25°C APPROX. [mPa·s]	COMMENTS
Desmophen® 1262 BD	260	430	70	Low-reactive polyether, low-molecular-weight product.
Desmophen® 1110 BD	112	1,000	140	Low-reactive polyether.
Desmophen® 1111 BD	112	1,000	155	Low-monol polyether, low reactive, odorless, good compatibility with pMDI.
Desmophen® 2060 BD	56	2,000	310	Low-reactive polyether, good compatibility with pMDI.
Desmophen® 2061 BD	56	2,000	345	Low-monol polyether, low reactive, odorless, good compatibility with pMDI.
Desmophen® 4028 BD	28	4,000	870	High-reactive polyether, good compatibility with pMDI.
Desmophen® 5168 T	28	4,000	870	Reactive polyether, good compatibility with pMDI.
Acclaim® Polyol 4200	28	4,000	970	Low-monol polyether, low reactive, odorless, good compatibility with pMDI.
Acclaim® Polyol 8200 N	14	8,000	3,000	Low-monol polyether, low reactive, odorless.
Acclaim [®] Polyol 12200 N	10	12,000	6,000	Low-monol polyether, low reactive, odorless.
Acclaim® Polyol 18200 N	6	18,000	23,000	Low-monol polyether, low reactive, odorless.

^{*} These products represent only a selection of the entire polyether portfolio. Additional polyether products can be found, for example, on the Covestro website: www.products.covestro.com. Product availability might change.

Desmophen® Acclaim®

Branched building blocks for NCO and silane-terminated prepolymers suitable for adhesives and sealants with advantages in hydrolysis resistance and flexibility. These high-performance, low-monol polyether polyols are prepared using Covestro's proprietary IMPACT™ technology, using a patented organo-metallic propoxylation catalyst.

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Polyether – triol*	OH NUMBER APPROX. [mg KOH/g]	MOLECULAR WEIGHT APPROX. [g/mol]	VISCOSITY AT 25°C APPROX. [mPa·s]	COMMENTS
Desmophen® 4011 T	550	300	1,800	Low-reactive polyether, low-molecular-weight product.
Desmophen® 1400 BT	400	420	370	Low-reactive polyether, low-molecular-weight product, good compatibility with pMDI.
Desmophen® 1380 BT	385	440	600	Low-reactive polyether, low-molecular-weight product.
Desmophen® 1381 BT	385	440	600	Low-reactive polyether, low-molecular-weight product, lower acidity than 1380 BT.
Desmophen® 28HS98	233	720	250	Low-reactive polyether, low-molecular-weight product.
Desmophen® 3061 BT	56	3,000	500	Reactive polyether.
Baygal® 70RE30	56	3,000	480	Low-reactive polyether.
Desmophen® 4042 BT	45	3,700	790	Low-monol polyether, low reactive, odorless.
Desmophen® 5034 BT	35	4,800	860	Reactive polyether.
Desmophen® 5035 BT	35	4,800	860	Reactive polyether, only for 2-component systems.
Acclaim® Polyol 6300	28	6,000	1,500	Low-monol polyether, low reactive, odorless.
	OH NUMBER APPROX. [mg KOH/g]		VISCOSITY AT 25°C APPROX. [mPa·s]	
Filled polyether – triol*		FILLER CONTENT APPROX. [%]		COMMENTS
Desmophen® 5029 GT	20	43 SAN	5,500	Reactive polyether.

^{*} These products represent only a selection of the entire polyether portfolio. Additional polyether products can be found, for example, on the Covestro website: www.products.covestro.com. Product availability might change.

Cardyon®

At Covestro we are working with ground-breaking technology to bring more sustainable innovation into the value chain. Inspired by nature, we are able to reuse ${\rm CO_2}$ as valuable material source in polyol production and reduce up to 20 % of fossil feedstock which is normally used.

Cardyon® is our innovative CO₂-based polyol for the production of high-quality polyurethanes. It enables all of us to be responsible suppliers, producers, retailers and consumers and make an impact towards a brighter future, today.





Polyethercarbonate polyol	FUNCTIONALITY	CO ₂ CONTENT [wt. %]	OH NUMBER APPROX. [mgKOH/g]	VISCOSITY AT 25°C APPROX. [mPa·s]	MOLECULAR WEIGHT APPROX. [g/mol]	COMMENTS
Cardyon® LC05	3	14	53	5,500	3,000	Cardyon® LC05 is a polyethercarbonate polyol.
Cardyon® LC06	2	19	56	7,000	2,000	Cardyon® LC06 is a polyethercarbonate polyol.
Cardyon® LC07	2	14	112	900	1,000	Cardyon® LC07 is a polyethercarbonate polyol.

Desmophen® C

Polycarbonate diol – where softness and toughness meet flexibility combined with high-end resistance to improve PU systems with respect to hydrolysis, oxidative and thermal impacts.





	GRADE	OH CONTENT	VISCOSITY AT 23° APPROX. [mPa·s]		EQUIVALENT WEIGH [g/mol]	IT
Polycarbonate – diol		(SUPPLY FORM) APPROX. [%]		SOLIDIFICATION APPROX. [°C]	N	COMMENTS
Desmophen® C 1100	Polyester-polycar- bonate diol	3.3	3,200	15	515	Low-viscous grade, good compatibility, building block for polymer synthesis, flexible and weather-stable sealants and coatings, cast systems, soft-touch and self-healing.
Desmophen® C 1200	Polyester-polycar- bonate diol	1.7	16,500	15	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.
Desmophen® C 2102	Polycarbonate diol	3.3	410 at 75°C	33–62	515	Symmetric building block for polymer synthesis, flexible and weather-stable sealants and coatings, cast systems, soft-touch and self-healing.
Desmophen® C 2202	Polycarbonate diol	1.7	2,300 at 75°C	39–52	1,000	Symmetric building block for polymer synthesis, flexible and weather-stable sealants and coatings, cast systems, soft-touch and self-healing.
Desmophen® C XP 2613	Polycarbonate diol	1.7	3,500 at 75°C	-6	1,000	Asymmetric, highly reactive, 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.





Aminofunctional resins, aspartics for coatings	SUPPLYFORM SOLID CONTENT APPROX. [%]	AMINE NUMBER APPROX. [mg KOH/g]	VISCOSITY AT 25°C APPROX. [mPa·s]	EQUIVALENT WEIGHT [g/mol]	COMMENTS
Desmophen® NH 1220	100	244	90	234	Binder or co-resin with high reactivity compared to Desmophen® NH 1420 for fast setting very high solids to 100% 2K polyaspartic coatings (putty elastomers, spray-applied aliphatic polyurea).
Desmophen® NH 1420	100	201	1,450	276	Standard grade, polyaspartic resin with standard reactivity for very high solids to 100% solid 2K polyaspartic coatings, indoor-air quality compliant (e.g. AgBB 2018), compliant to construction standard EN1504.
Desmophen® NH 1422	100	201	1,450	276	Less reactive version of Desmophen® NH 1420.
Desmophen® NH 1423 LF	100	205	1,500	274	Comparable application properties like Desmophen® NH 1420 . Improved industrial hygiene, due to significantly reduced fumaric acid diethylester content (< 0,1 wt.–%). Better gloss retention in pigmented topcoats. Better color stability in clearcoat applications.
Desmophen® NH 1520	100	191	1,400	290	Binder or co-resin with lower reactivity compared to Desmophen® NH 1420 for very high solids to 100% solid 2K polyaspartic coatings.
Desmophen® NH 1521	90 in BA	172	160	326	Supply form of Desmophen® NH 1520 .
Desmophen® NH 1720	100	190	100	295	Reactive diluent for very high solids to 100% solid 2K polyaspartic coatings (floor coatings, corrosion protection topcoats), indoor-air quality compliant (e.g. AgBB 2018), compliant to construction standard EN1504, higher impact resistance and reduced brittleness of cured coatings.
Desmophen® NH 1723 LF	100	195	110	290	Comparable application properties like Desmophen® NH 1720 . Improved industrial hygiene, due to significantly reduced fumaric acid diethylester content (< 0,1 wt%).

Desmocoll®

Polyester polyurethanes for solvent-borne adhesives.



	SOLUTION VISCOSITY AT 23°C (15% IN MEK) APPROX. [mPa·s]	CRYSTALLIZATION TIME APPROX.	MIN. ACTIVATION TEMPERATURE [°C] APPROX.	THERMO- PLASTICITY	SOFTENING POINT (ASTM D 816) (1K) APPROX. [°C]	APPEARANCE	COMMENTS
Desmocoll® 140	90	48 h	45	high	< 40	Transparent	Foil lamination.
Desmocoll® 176	600	48 h	45	high	45	Turbid	Textile lamination, grinding belts.
Desmocoll® 400/1	600	30 min	50	high	50	Transparent	
Desmocoll® 400/2	1,000	30 min	50	high	50	Transparent	Soluble in methylene chloride, conveyor belt repair.
Desmocoll® 400/3	1,750	30 min	50	high	50	Transparent	
Desmocoll® 406	600	72 h	50	high	40	Turbid	Contact adhesives, lamination.
Desmocoll® 500/1	225	5 min	50	high	50	Transparent	Soluble in toluene and methylene chloride, conveyor belt
Desmocoll® 500/2	600	5 min	50	high	50	Transparent	repair.
Desmocoll® 526	600	48 h	50	medium	60	Turbid	Contact adhesives.
Desmocoll® 530/1	690	30 min	55	low	75	Transparent	
Desmocoll® 530/2	1,200	30 min	55	low	75	Transparent	Fast crystallizing, high 1K heat resistance.
Desmocoll® 530/3	1,950	30 min	55	low	75	Transparent	

Desmocoll®

Polyester polyurethanes for solvent-borne adhesives.

	SOLUTION VISCOSITY AT 23°C (15% IN MEK) APPROX. [mPa·s]	CRYSTALLIZATION TIME APPROX.	MIN. ACTIVATION TEMPERATURE [°C] APPROX.	THERMO- PLASTICITY	SOFTENING POINT (ASTM D 816) (1K) APPROX. [°C]	APPEARANCE	COMMENTS
Desmocoll® 540/1	300	10 min	60	low	80	Slightly turbid	
Desmocoll® 540/2	750	10 min	60	low	80	Slightly turbid	Premium grade, highest 1K heat resistance.
Desmocoll® 540/3	1,250	10 min	60	low	80	Slightly turbid	
Desmocoll® 540/4	1,800	10 min	60	low	80	Slightly turbid	
Desmocoll® 540/5	2,850	10 min	60	low	80	Slightly turbid	
Desmocoll® 621/0	1,250	2 h	55	low	70	Transparent	
Desmocoll® 621/1	1,800	2 h	55	low	70	Transparent	General purpose.
Desmocoll® 621/2	2,600	2 h	55	low	70	Transparent	
Desmocoll® XP 2597/2	750	50 min	45	low	75	Slightly turbid	
Desmocoll® XP 2597/3	1,250	50 min	45	low	75	Slightly turbid	Footwear, good initial heat resistance.
Desmocoll® XP 2597/4	1,850	50 min	45	low	75	Slightly turbid	rootweal, good Illitial fleat resistance.
Desmocoll® XP 2597/5	2,650	50 min	45	low	75	Slightly turbid	





Desmomelt® Nonreactive resins

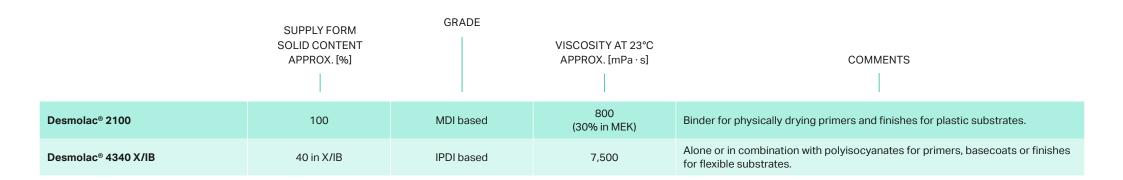
Linear, thermo-activatable polyurethanes for adhesives with terminal hydroxyl groups based on crystallizing polyester polyols and aromatic diisocyanates. They are available in the form of granules for extrusion or direct coating and powder for scatter coating applications.



Linear, thermo- activatable polyurethanes	SOLUTION VISCOSITY AT 23°C (15% IN MEK) APPROX. [mPa·s]	CRYSTALLIZATIO TIME [min] APPROX.	MIN. ACTIVATION TEMPERATURE [°C] APPROX.	THERMO- PLASTICITY	SOFTENING POINT (ASTM D 816) (1K) APPROX. [°C]	COMMENTS
Desmomelt® 530	1,200	30	55	low	75	Extruded flat products made from this raw material (hot melt adhesive films and fleeces) have outstanding adhesion on a large number of materials.
Desmomelt® 540/1	300	10	60	low	80	Extruded flat products made from this raw material (hot melt adhesive films and fleeces) have outstanding adhesion on a large number of materials. It has high initial bond strength and thermal stability.
Desmomelt® 540/3	1,850	10	60	low	80	Extruded flat products made from this raw material (hot melt adhesive films and fleeces) have outstanding adhesion on a large number of materials. It has high initial bond strength and thermal stability.
Desmomelt® VP KA 8702	200	10	60	low	80	Powder particle size < 600 μm. Mainly textile and leather lamination.

Desmolac®

Nonfunctional high molecular weight polyurethane resins for plastic finishes.







Pergut®

Coating and adhesive raw materials based on chlorinated rubber. All grades with low content of toluene (\leq 2.5%) and extremly low content of CCL $_4$ (< 0.005%).



	VISCOSITY* AT 23°C APPROX. [mPa·s]		RAW MATERIAL	RAW MATERIAL		
		CHLORINE CONTENT [wt. %]		COMMENTS		
Pergut® S 5	5	≥ 64.5	Polybutadiene	Hot-seal coatings, binder for anti-corrosion coatings, combination binder, e.g., for alkyd resins, acrylates and ketone resins.		
Pergut® S 10	11	≥ 64.5	Polyisoprene	Binder, e.g., for anticorrosion coatings and road marking.		
Pergut® B 10	10	≥ 64.0	Polybutadiene	Binder, e.g., for anticorrosion coatings and road marking.		
Pergut® S 20	20	≥ 64.5	Polyisoprene	Binder for adhesives and, e.g., anti-corrosion, concrete, roadmarking & printing inks.		
Pergut® B 20	20	≥ 64.0	Polybutadiene	Binder, e.g., for anti-corrosion, concrete & roadmarking.		
Pergut® S 40	42	≥ 64.5	Polyisoprene	Binder for adhesives and, e.g., anti-corrosion, concrete, swimming pools; combination binder, e.g., for alkyd resins, acrylates and ketone resins.		
Pergut® S 90	92	≥ 64.5	Polyisoprene	Binder for adhesives and, e.g., for swimming pools and concrete coatings.		
Pergut® S 130	150	≥ 64.5	Natural rubber	Used as primer and adhesion promoter between rubber and metal.		
Pergut® S 170	165	≥ 64.5	Polyisoprene	Used as primer and adhesion promoter between rubber and metal.		

^{*} Viscosity and iodine color value measured in 18.5% solution in toluene



Legend

Solvents

BA Butyl acetate EA Ethyl acetate

IB Isobutanol

MPA Methoxypropylacetate
MEK Methylethylketone
SN Solvent naphtha

X Xylene

SAN Styrene acrylonitrile copolymer

Other abbreviations

pMDI Polymeric diphenylmethane diisocyanate

Tg Glass transition temperature

Fast-lane access to polyurethane innovations

At Covestro, innovation is in our DNA. Ever since Otto Bayer discovered polyurethanes in 1937, we have been driving polyurethane innovations in coatings and adhesives as well as in other application areas. As our partner, you enjoy fast-lane access to polyurethane innovations, and can help us in developing the next generation of polyurethanes to meet the industry's upcoming challenges and needs. What can we offer you?

- Powerful know-how on both established and new polyisocyanates, as well as on new polyurethane hybrid technologies.
- The prospect of new application technologies to enable efficient processes.
- More sustainable, partly biomass- or CO₂-based materials that do not sacrifice high performance.

Join us to shape the future!







Covestro Deutschland AG Kaiser-Wilhelm-Allee 60 51373 Leverkusen Germany

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¹ Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

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