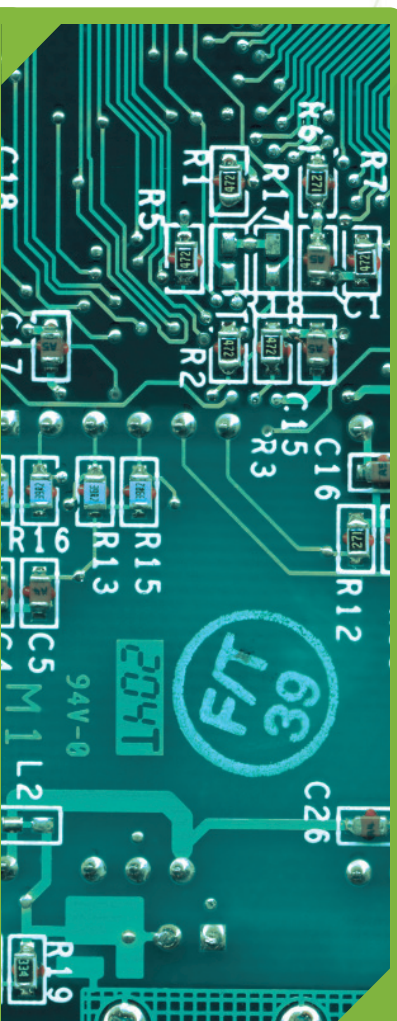




COMPLETE PRODUCT CATALOGUE



RESINS

Your world of synthetic resins

FROM LOCAL PRODUCER TO GLOBAL PLAYER



Spolek pro chemickou a hutní výrobu, a.s. (Spolchemie) is a manufacturing company, occupying a leading position among manufacturers of chemical raw materials in Europe. We have been in business since 1856. Our manufacturing factory, R&D and head office are located in Ústí nad Labem (Czech Republic) around 90 km north of Prague and 50 km south of Dresden. Spolchemie is a chemical company specialized in production of high quality resins products. Spolchemie was among the first companies in the world to produce epoxy resins on an industrial scale. Production of liquid epoxy resins using "in house" technology, began in Ústí nad Labem in 1955.

RESPONSIBLE PRODUCTION FOR A CLEARER FUTURE

We put the accent on environmental protection, product stewardship, health and safety. Quality, protection of the environment and safety are key factors in the company's policy.



Spolchemie supports environmental friendly and sustainable chemistry through clean production technology (new and proprietary production of epichlorohydrin), using renewable raw materials (glycerin), reducing carbon footprint (reduction of green house gas), using less crude oil, effective use of energy and high safety standards. We try to support sustainable growth and development in the company through connecting economy, environment protection and social aspects – human protection. The new green resins meet these demands. In context of stricter state and European Union environment legislation provide both ecological and economic advantages.

For more than fifty years our customers have relied on Spolchemie to provide them with first class resins products and technical support to help them achieve their objectives. Spolchemie aims to be a dynamic, market driven, European producer of epoxy and alkyd resins, providing excellent products and service to our customers. Our management focuses our strategy on creating value. Thanks to R&D, in touch with the market, a wide product range is offered covering various innovative and environmentally friendly products to suit our customers' requirements. Above all, behind each product are qualified people that Spolchemie wishes to stimulate in their own development.

SPOLCHEMIE – YOUR RELIABLE PARTNER IN THE WORLD OF SYNTHETIC RESINS

We have a broad product portfolio and have commitment to quality, customer service and supply reliability. We're also firmly committed to investment in equipment and research and development in order to minimize the company's impact on environment.



Spolchemie is structured in business units (BUs) serving a variety of industries and industrial sectors. BU Resins is the largest making up over two thirds of Spolchemie's business. BU Resins develops, manufactures and markets several innovative products uniquely suited to the needs of synthetic resins application.

BU Resins consist of four product groups - epoxy resins, unsaturated polyesters, alkyds and rosin based resins. The newest products in our product portfolio are environmentally friendly resins – green epoxy resins and alkyd resins for use in printing inks and industrial coatings.

Our product line includes CHS-EPOXY® liquid, solid, blends and epoxy derivatives, TELALIT® hardeners for epoxies, CHS-ALKYD® solvent borne & high solid, and CHS-HYDROSPOL® waterborne alkyd resins designed for coating industry. The CHS-EPODUR® & SADURIT® family of filled and unfilled final systems based on epoxy resins give manufacturers the capability to fine-tune high performance applications in variety of industries (composites, electro industry and adhesives). The EPOSTYL® & SADURIT® product range provides a wide variety of choices for optimal solutions in the areas of coatings and self-leveling flooring systems for construction applications. These solutions focus on customer demand for superior long-life chemical and abrasion resistance. In the area of epoxy resins the company is backward integrated into the production of key raw materials – Epichlorohydrin and Bisphenol A.



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NOTES:

EPOXY RESINS

UNMODIFIED LIQUID							
CHS-EPOXY 510	12,5 - 15,5	5,18 - 5,46	183 - 193	max. 200	max. 0,03	Low molecular weight epoxy resin based on Bis A, does not crystallize	Modifications, impregnating, laminating and potting operations in various industrial applications
CHS-EPOXY 520	12,0 - 14,5	5,21 - 5,50	182 - 192	max. 100	max. 0,03	Low molecular weight epoxy resin based on Bis A	Modifications, impregnating, laminating and potting operations in various industrial applications
CHS-EPOXY 525	10,0 - 12,0	5,29 - 5,59	179 - 189	max. 100	max. 0,03	Low molecular weight epoxy resin based on Bis A	Modifications, impregnating, laminating and potting operations in various industrial applications
CHS-EPOXY 525 LA	10,0 - 12,0	5,30 - 5,50	182 - 189	max. 100	max. 0,03	Low α glycol content	Modifications, impregnating, laminating and potting operations in various industrial applications
CHS-EPOXY 530	8,0 - 10,0	5,38 - 5,68	176 - 186	max. 100	max. 0,03	Low molecular weight epoxy resin based on Bis. A	Modifications, impregnating, laminating and potting operations in various industrial applications
CHS-EPOXY 590	3,0 - 5,5	5,70 - 6,06	165 - 175	max. 100	max. 0,03	Low molecular weight epoxy resin based on Bis. F	Modifications, impregnating, laminating and potting operations in various industrial applications
MODIFIED LIQUID							
CHS-EPOXY 324	20,0 - 60,0	3,0 - 3,4	294 - 333	max. 300	-	Medium molecular weight epoxy resins modified with a non-phthalate, non-reactive modifier	Adhesives for metals, wood, ceramics
CHS-EPOXY 455	2,0 - 4,0	4,3 - 4,8	208 - 232	max. 100	-	Low molecular weight epoxy resins modified with a non-phthalate, non-reactive modifier	Non phthalate adhesives, civil engineering and composites.
CHS-EPOXY 474	0,3 - 0,6	4,5 - 4,9	204 - 223	max. 100	-	Low molecular weight epoxy resin modified with mono-functional reactive and non-reactive diluent	Composites, coatings, applications in civil engineering, casting compounds and laminating
CHS-EPOXY 498	0,5 - 0,7	4,8 - 5,1	196 - 208	max. 100	-	Low molecular weight epoxy resin modified with mono-functional reactive diluent	Civil engineering, potting, laminating and impregnation
CHS-EPOXY 508	1,0 - 2,0	5,0 - 5,4	185 - 200	max. 100	-	Low molecular weight epoxy resin modified with mono-functional reactive diluent	Civil engineering, potting, laminating and impregnation
CHS-EPOXY 512	2,5 - 4,1	4,3 - 4,8	208 - 233	max. 100	-	Low molecular weight epoxy resin modified with non-reactive modifier, flexibilized	Casting, laminates, adhesives, construction (bonding agent for mortar, concrete and high chemical resistance compositions)
CHS-EPOXY 517	0,55 - 0,95	4,3 - 4,7	213 - 233	max. 100	-	Low molecular weight epoxy resin modified with reactive diluent, flexibilized	Casting, laminates, adhesives, construction (bonding agent for mortar and concrete)
CHS-EPOXY 521	0,6 - 0,9	4,9 - 5,1	196 - 206	max. 100	-	Low molecular weight epoxy resin modified with mono-functional reactive diluent	Laminating, potting, solventless coatings, civil eng.
CHS-EPOXY 531	1,5 - 2,3	5,5 - 5,7	175 - 182	max. 100	-	Low molecular weight epoxy resin modified with bi-functional reactive diluent	Composites, solventless coatings and impregnations, construction (bonding agent for mortar, concrete and food industry compositions)
CHS-EPOXY 581	1,0 - 1,7	5,7 - 6,0	165 - 175	max. 100	max. 0,2	Low molecular weight Bis A/F resin modified with difunctional reactive diluent	Lamination, impregnation, casting, civil and electrical engineering, high-solid coatings, wind mill's blades production
CHS-EPOXY 619	0,4 - 0,9	5,9 - 6,5	155 - 170	max. 100	max. 0,2	Low molecular weight epoxy resin modified with tri-functional reactive diluent	High performance laminating, potting, solventless coatings and impregnation
SEMI-SOLID							
CHS-EPOXY 301	-	2,7 - 3,3	300 - 370	-	-	Semisolid epoxy resin based on Bis A	Hot casting, solventborne coatings, prepregs
CHS-EPOXY 411	0,5 - 0,8 ¹	3,9 - 4,2	240 - 255	max. 100 ¹	-	Semisolid epoxy resin based on Bis A	Hot casting, solventborne coatings, prepregs
UNMODIFIED SOLID							
CHS-EPOXY 030	2,6 - 12,0 ²	0,25 - 0,45	2220 - 4000	max. 100 ²	-	High molecular weight "9 - type" epoxy resin	Can and coil coatings etc.
CHS-EPOXY 050	1,6 - 2,6 ²	0,45 - 0,60	1650 - 2250	max. 100 ²	-	High molecular weight "7 - type" epoxy resin	Can and coil coatings etc.
CHS-EPOXY 070	1,7 - 2,6 ²	0,61 - 0,74	1350 - 1640	max. 100 ²	-	High molecular weight "6 - type" epoxy resin	Can and coil coatings etc.
CHS-EPOXY 112	0,5 - 1,0 ²	0,95 - 1,11	900 - 1050	max. 100 ²	-	Medium molecular weight "4 - type" epoxy resin	Powder coatings
CHS-EPOXY 121	0,4 - 0,8 ²	1,11 - 1,25	800 - 900	max. 100 ²	-	Medium molecular weight "3,5 - type" epoxy resin	Powder coatings
CHS-EPOXY 130	0,3 - 0,6 ²	1,25 - 1,43	700 - 800	max. 100 ²	-	Medium molecular weight "3 - type" epoxy resin	Powder coatings
CHS-EPOXY 141	0,30 - 0,55 ²	1,43 - 1,54	650 - 700	max. 100 ²	-	Low molecular weight "2,5 - type" epoxy resin	Powder coatings
CHS-EPOXY 160	0,25 - 0,45 ²	1,54 - 1,67	600 - 650	max. 100 ²	-	Low molecular weight "2 - type" epoxy resin	Powder coatings
CHS-EPOXY 171	0,20 - 0,35 ²	1,67 - 1,82	550 - 600	max. 100 ²	-	Low molecular weight "1,5 - type" epoxy resin	Powder coatings, solventborne coatings
CHS-EPOXY 211	0,15 - 0,25 ²	1,82 - 2,22	450 - 550	max. 100 ²	-	Low molecular weight "1 - type" epoxy resin	Powder coatings, solventborne coatings

MODIFIED SOLID							
CHS-EPOXY 112 4F0,5	0,5 - 1,0 ²	1,05 - 1,11	900 - 950	-	-	Mixture of CHS-EPOXY 112 and 0,5% of flow control agent ³	Powder coatings
CHS-EPOXY 112 4F5	0,5 - 1,0 ²	0,90 - 1,10	910 - 1110	-	-	Mixture of CHS-EPOXY 112 and 5% of flow control agent ³	Powder coatings
CHS-EPOXY 130 4F10	0,3 - 0,6 ²	1,10 - 1,30	770 - 910	-	-	Mixture of CHS-EPOXY 130 and 10% of flow control agent ³	Powder coatings
CHS-EPOXY 141 4F5	0,35 - 0,5 ²	1,30 - 1,40	690 - 770	-	-	Mixture of CHS-EPOXY 141 and 5% of flow control agent ³	Powder coatings
CHS-EPOXY 160 4F2,5	0,25 - 0,45 ²	1,50 - 1,70	590 - 670	-	-	Mixture of CHS-EPOXY 160 and 2,5% of flow control agent ³	Powder coatings
EPOXY RESINS BASED ON BPA/F							
CHS-EPOXY 501	0,6 - 0,8	5,0 - 5,3	188 - 200	max. 100	max. 0,1	Low molecular weight Bis A/F resin modified by monofunctional reactive diluent	Composites, high solid, anticorrosion paints, civil engineering, casting
CHS-EPOXY 514	0,8 - 1,1	5,1 - 5,4	185 - 196	max. 100	max. 0,1	Low molecular weight Bis A/F resin modified by monofunctional reactive diluent	Composites, high solid, anticorrosion paints, civil engineering, casting
CHS-EPOXY 571	6,0 - 8,0	5,4 - 5,7	175 - 185	max. 100	max. 0,03	Low molecular weight Bis A/F epoxy resin	Coatings, penetrants, filled systems, casting applications and insulating materials
CHS-EPOXY 572	4,5 - 7,0	5,5 - 5,8	172 - 182	max. 100	max. 0,03	Low molecular weight Bis A/F epoxy resin	Coatings, penetrants, filled systems, casting applications and insulating materials
CHS-EPOXY 573	8,0 - 10,5	5,3 - 5,6	179 - 189	max. 100	max. 0,03	Low molecular weight Bis A/F epoxy resin	Coatings, penetrants, filled systems, casting applications and insulating materials
CHS-EPOXY 574	1,4 - 1,7	5,5 - 5,8	174 - 182	max. 100	max. 0,1	Low molecular weight Bis A/F resin modified by difunctional reactive diluent	Lamination, impregnation, casting, civil and electrical engineering, high-solid coatings
CHS-EPOXY 575	0,7 - 0,9	5,6 - 5,9	169 - 179	max. 100	max. 0,1	Low molecular weight Bis A/F resin modified by difunctional reactive diluent	Solventless coatings, penetrants, filled systems, casting applications and insulating materials
EPOXY RESINS - SOLUTION							
CHS-EPOXY 101 X60	2,5 - 5,0	-	-	max. 3 *	-	Fast air drying 60% solution of higher molecular weight epoxy resin	Air-drying coatings, in the mixture with melamine- formaldehyde resins for the formulation of baking coatings
CHS-EPOXY 200 M75	0 - 2,0	1,9 - 2,3	435 - 525	max. 1 *	max. 0,02	Solution of low molecular weight epoxy resin in methylisobutylketone	Production of laminates and electrical insulators
CHS-EPOXY 210 X75	5,0 - 12,0	2,0 - 2,3	445 - 500	max. 1 *	-	75% solution of low molecular weight epoxy resin in xylene	High performance two component coating materials such as anticorrosion primers, baking coatings
CHS-EPOXY 222 IX 60	0,2 - 0,4	1,8 - 2,3	430 - 555	max. 3 *	-	60% solution of a low molecular weight epoxy resin in solvent blend, flexibilized	Anticorrosive paint in marine and railway industry, gas industry, insulation of building, sewage pipes and reservoirs
CHS-EPOXY 381 X90	2,0 - 5,0	3,2 - 3,8	-	-	-	90% xylene solution of flexibilized epoxy resin based on Bisphenol A	For high-solid paints and for manufacture of anticorrosive coatings and enamels.
CHS-EPOXY 520 X90	0,4 - 1,0	5,2 - 5,5	182 - 192	max. 100	-	90% xylene solution of low molecular weight epoxy resin based on Bisphenol A	For high-solid paints and lacquers, high-solid anticorrosive coatings
BROMINATED EPOXY RESINS							
CHS-EPOXY B 200 M 80	1,1 - 2,3	1,8 - 2,3	435 - 555	max. 1 *	max. 0,1	80% solution of brominated (21% wt.) medium molecular weight epoxy resin, dissolved in methyl ethyl ketone	Prepregs for printed circuits boards, laminates
EPOXY RESINS FOR WATERBORNE SYSTEMS							
CHS-EPOXY 160 V 55	0,1 - 1,0	1,3 - 1,8	555 - 800	-	-	VOC free water dispersion of a low molecular weight epoxy resin	Varnish and a binder of paints for wood, wood fibre boards, concrete, metals and others
CHS-EPOXY 200 V 55	0,1 - 0,7	1,2 - 2,2	455 - 525	-	-	Water dispersion of a low molecular weight epoxy resin	Varnish and binder of paints for wood, wood fibre boards, concrete, metals and others

Notes:

¹ Viscosity of 70% solution in butyldiglycol / 25°C² Viscosity of 40% solution in butyldiglycol / 25°C³ Polyacrylic type of flow control agent

Given the large number of products in our range, it is difficult to show all in a schematic overview. For more information please contact us.

NOTES:

ALKYD RESINS

PRODUCT	OIL LENGTH (%)	TYPE OF OIL OR FA ²	SOLVENT ¹	VISCOSITY (Pa.s, 23°C) * Softening point (°C)	NON-VOLATILE CONT. (%)	ACID VALUE (mg KOH/g) * pH	CHARACTERISTIC
INDUSTRIAL COATINGS							
CHS-HYDROSPOL D 01	27	Linseed	V	0,02 - 0,16	42,0 - 46,0	7 - 9 *	Water dispersion of linseed oil alkyd, free of organic solvents, milky dispersion, for steel anticorrosion primers, fast-drying & outdoor resistance
CHS-ALKYD AKS 281 X 60	28	Soya	X	1,5 - 5,0	58,0 - 62,0	max. 8	Air-drying short oil alkyd, super fast-drying, superior corrosion resistance, low yellowing
CHS-ALKYD AL 2900	30	Linoleic rich FA	X	1,7 - 2,5	58,5 - 61,0	max. 20	Fast drying short oil alkyd, high performance industrial topcoats (air dry, force dry, baking), industrial primers, baking enamels
CHS-ALKYD AL 3701	30	Linoleic rich FA	X	2,8 - 3,7	59,0 - 61,0	13 - 25	Fast drying short oil alkyd, lift resistant primer (air dry, force dry, baking), anticorrosive and rust resistant coatings, topcoats and one-layer application, as putties and fillers
CHS-ALKYD TU 341 X 60	34	TOFA	X	2,0 - 5,0	58,0 - 62,0	max. 7	Air-drying alkyd, high performance anticorrosive coatings
CHS-ALKYD S 401 X 55	40	Soya	X	0,8 - 1,2	53,5 - 56,5	max. 7	Air-drying alkyd, economic primers and anticorrosive coatings
CHS-ALKYD S 401 X 60	40	Soya	X	2,0 - 4,0	58,5 - 61,5	max. 7	Air-drying alkyd, economic primers and anticorrosive coatings
CHS-ALKYD S 471 WX 55	47	Soya	WX	2,9 - 5,3	53,5 - 56,5	max. 5	Air-drying alkyd, economic primers and anticorrosive coatings, for fast overcoating of primers
CHS-ALKYD S 471 X 60	47	Soya	X	0,8 - 1,7	58,0 - 62,0	max. 6	Air-drying alkyd, economic primers and anticorrosive coatings
CHS-ALKYD S 491 W 55	49	Soya	W	2,5 - 5,5	54,0 - 56,0	max. 6	Air-drying alkyd, economic primers and anticorrosive coatings, for fast overcoating of primers
CHS-ALKYD S 491 WB 55	49	Soya	WB	1,4 - 2,0	53,0 - 57,0	max. 5	Short oil alkyd, industrial coatings on metal surfaces (primers, white enamels and quick drying lacquers)
CHS-ALKYD TU 497 X 55	49	TOFA	X	0,6 - 1,5	53,5 - 56,5	max. 4	Short oil alkyd, high flexible & corrosion resistant, weathering resistance and outstanding adhesion, primers & single-layer coatings for iron and light metals
CHS-ALKYD M 552 WX 60	55	Linseed	WX	0,45 - 0,95	58,5 - 61,5	max. 8	Medium oil alkyd modified by synthetic rosin resin, fast drying anticorrosion primers
CHS-ALKYD SU 621 N 50	62	Soya	N	0,5 - 2,0	48,5 - 51,5	max. 7	Air-drying alkyd resin, deaeromatised white spirit, aromatics content less than 1%, fast-drying
CHS-ALKYD SU 671 W 60	67	Soya	W	2,0 - 4,0	58,0 - 62,0	max. 1	Air-drying alkyd resin, fast air-drying coatings with high hardness
DECORATIVE COATINGS							
CHS-HYDROSPOL D 101	27	Soya	V	0,02 - 0,16	44,0 - 46,0	6 - 8 *	Water dispersion of alkyd, milky dispersion, for topcoats on one-coat-system, fast-drying & outdoor resistance
CHS-HYDROSPOL D 401	40	Soya	V	0,02 - 0,16	44,0 - 46,0	7 - 9 *	Water dispersion of alkyd, milky dispersion, for topcoats of one-coat-system, mainly for wood surfaces
CHS-ALKYD S 623 NN 50	50	Soya	NN	0,31 - 0,56	48,5 - 51,5	max. 5	Soya bean oil alkyd, air drying coatings (clear coats and top coats for interior and exterior applications)
CHS-ALKYD T 501 WX 55	50	TOFA	WX	1,2 - 2,0	53,5 - 56,5	max. 8	Medium oil alkyd, maleinised fast air-drying
CHS-ALKYD ST 551 N 50	55	Soya	N	THIXOTROPIC	48,5 - 51,5	max. 8	Air-drying alkyd, aromatics content less than 1%, high thixotropy, polyamide type
CHS-ALKYD TRIM 551 W 85	55	TOFA	W	2,5 - 4,5	83,5 - 86,5	max. 10	High solid alkyd, fast - drying, anticorrosive, wood & metal
CHS-ALKYD SU 632 N 60	60	Soya	N	0,9 - 1,5	57,0 - 59,0	max. 2	Long oil alkyd, fast drying, outstanding hardness, excellent mechanical properties and weather-resistance, wood & metal
CHS-ALKYD S 618 W 80	61	Soya	W	5,7 - 7,5	77,5 - 81,0	max. 7	Soya bean oil alkyd resin, modified, air-drying paints for exterior wood and metal
CHS-ALKYD S 621 W 60	62	Soya	W	1,1 - 2,3	58,5 - 61,5	max. 7	Air-drying alkyd in white spirit, outdoor durability, wood coatings
CHS-ALKYD S 622 N 55	62	Soya	N	1,0 - 2,0	53,5 - 56,5	max. 6	Air-drying alkyd in deaeromatised white spirit, aromatics content less than 1%, outdoor durability, universal
CHS-ALKYD S 622 N 60	62	Soya	N	3,7 - 4,7	58,5 - 61,5	max. 7	Air-drying alkyd in deaeromatised white spirit, aromatics content less than 1%, outdoor durability, universal
CHS-ALKYD S 622 W 55	62	Soya	W	0,6 - 0,95	54,0 - 56,0	max. 5,5	Air-drying alkyd, universal
CHS-ALKYD S 622 W 65	62	Soya	W	8,0 - 13,0	63,0 - 68,0	max. 9	Air-drying alkyd, universal
CHS-ALKYD S 623 NN 60	62	Soya	NN	6,0 - 10,0	60,0 - 62,0	max. 7	Air-drying alkyd in deaeromatised white spirit, aromatic content less than 1%
CHS-ALKYD S 651 N 70	65	Soya	N	5,5 - 9,5	68,0 - 72,0	max. 7	Air-drying alkyd in deaeromatised white spirit, aromatics content less than 1%
CHS-ALKYD S 652 NN 70	65	Soya	NN	9,0 - 11,0	68,0 - 72,0	max. 7	Air-drying alkyd in deaeromatised white spirit, aromatics content less than 1%, flash point over 61°C, outdoor durability
CHS-ALKYD S 653 W 70	65	Soya	W	10,0 - 13,5	69,0 - 71,0	max. 7	Air-drying alkyd in white spirit

CHS-ALKYD S 670 NN 75	67	Soya	NN	2,0 - 2,8	74,0 - 76,0	5 - 10	Soya bean oil fatty acids based alkyd, flash point over 61°C, air drying top-coats for exterior, wood and metal surfaces
CHS-ALKYD SUR 735 NN 80	73	Soya	NN	6,5 - 8,5	78,5 - 81,5	max. 4	High solid alkyd resin, fast air-drying, good hardness, gloss retention and weather-resistance, wood & metal
CHS-ALKYD LUR 740 NN 80	74	Linseed	NN	6,5 - 9,2	78,0 - 81,0	max. 4	High-solid alkyd resin, flash point over 61°C, fast-drying & excellent hardness, coatings for wood and metal
CHS-ALKYD TRI 841	84	TOFA, DCO	-	2,5 - 3,5	97,0 - 100,0	max. 10	Air-drying alkyd resin, solventless, fast-drying & durability, low yellowing
CHS-ALKYD TI 870	87	TOFA	-	2,2 - 3,2	97,0 - 100,0	max. 8	Air-drying long oil alkyd resin, solventless, low yellowing
BINDERS FOR PRINTING INKS							
CHS-ALKYD AL 6550	73	Linseed	-	18,0 - 21,0	100	max. 5	Long oil alkyd resin based on linseed oil, binder for letterpress and offset inks
CHS-ALKYD AL 7150	73	Soya	-	10,0 - 12,0	100	7 - 12	Long oil alkyd resin based on soybean oil, offset inks (quickset or coldset inks)
CHS-ALKYD AL 7310	75	Soya	-	55,0 - 65,0	100	4 - 10	Long oil alkyd resin based on soybean oil, offset inks (heatset, sheet offset & metal inks)
WATERBORNE ALKYD RESINS							
CHS-ALKYD AL 3964	27	Linoleic rich FA	BuGV	13,0 - 18,0	69,0 - 71,0	38 - 42	Short oil alkyd in butyl glycol and butanol, primers, topcoats and one-layer coatings (air dry, force dry, baking with melamine resins)
CHS-HYDROSPOL D 01	27	Linseed	V	0,02 - 0,16	42,0 - 46,0	7 - 9 *	Water dispersion of linseed oil alkyd, milky dispersion, for steel anticorrosion primers
CHS-HYDROSPOL D 101	27	Soya	V	0,02 - 0,16	44,0 - 46,0	6 - 8 *	Water dispersion of soya oil alkyd, milky dispersion, for topcoats or one-coat-system, fast-drying & outdoor resistance
CHS-ALKYD AL 3961	29	Linoleic rich FA	BuGV	17,0 - 20,0	74,0 - 76,0	35 - 39	Short oil alkyd, primers, topcoats and one-layer coatings (air dry, force dry, baking with melamine resins)
CHS-HYDROSPOL D 401	40	Soya	V	0,02 - 0,16	44,0 - 46,0	7 - 9 *	Water dispersion of soya oil alkyd, milky dispersion, for wood coatings
BINDERS FOR ADHESIVES							
ABIESTER 100 P	-	-	-	95-105 *	100	max. 20	Ester based rosin resin, printing, dispersion adhesives, coatings & tyres
ABIESTER 90	-	-	-	85 - 95 *	100	max. 20	Ester based rosin resin, coatings, hot melt adhesives & printing inks
ABIFEN 125 D	-	-	-	120-130 *	100	max. 25	Novolac resin modified with rosin, coatings, adhesives & tyres
ABIMAL 125	-	-	-	120-130 *	100	max. 40	Ester based rosin resin, coatings, printing colours, fast-drying, gloss, light durability & weather resistance
STOVING ALKYD RESINS							
CHS-ALKYD AL 3220	24	Coconut	M	0,9 - 1,5	74,0 - 76,0	max. 10	Short oil alkyd based on coconut oil, wood and metal nonyellowing coatings, baking enamels
CHS-ALKYD C 351 E 75	35	FA	E	3,5 - 4,5	73,5 - 76,5	max. 7	Short oil alkyd resin in butylacetate for baking or nitrocellulose coatings
CHS-ALKYD C 351 X 60	35	FA	X	0,7 - 1,3	58,0 - 62,0	max. 6	Short oil alkyd resin in xylene for baking or nitrocellulose coatings

Notes:

¹ B - Butanol

BuG - Butyl Glycol

E - Butyl Acetate

M - Methyl ethyl Ketone

N - Dearomatized W

NN - Dearomatized W with flash point over 61 °C

V - Water

W - White Spirit

X - Xylene

² FA - Fatty Acid

TOFA - Tall Oil Fatty Acid

DCO - Dehydrated Castor Oil

Given the large number of products in our range, it is difficult to show all in a schematic overview. For more information please contact us.

NOTES:

GREEN RESINS

GREEN EPOXY RESINS						
CHS-EPOXY G 520	12,0 - 14,5	5,2 - 5,5	182 - 192	max. 100	max. 0,03	Low molecular weight basic liquid epoxy resin containing no modifiers, EPD certified significant savings in CO ₂ , low crude oil content and high renewable content
						Casting and tooling, civil engineering, coatings, adhesives, composites, encapsulation and potting
CHS-EPOXY G 525	10,0 - 12,0	5,3 - 5,6	179 - 189	max. 100	max. 0,03	Low molecular weight basic liquid epoxy resin containing no modifiers, EPD certified significant savings in CO ₂ , low crude oil content and high renewable content
						Casting and tooling, civil engineering, coatings, adhesives, composites, encapsulation and potting
CHS-EPOXY G 530	8,0 - 10,0	5,4 - 5,7	176 - 186	max. 100	max. 0,03	Low molecular weight basic liquid epoxy resin containing no modifiers, EPD certified significant savings in CO ₂ , low crude oil content and high renewable content
						Casting and tooling, civil engineering, coatings, adhesives, composites, encapsulation and potting

EPOXY RESINS FOR WATERBORNE SYSTEMS

CHS-EPOXY 160 V 55	0,1 - 1,0	1,25 - 1,80	555 - 800	milky	54 - 58 *	VOC free water dispersion of a low molecular weight epoxy resin	As varnish and binder of paints for wood, concrete and metal
CHS-EPOXY 200 V 55	0,1 - 0,7	1,90 - 2,20	455 - 525	milky	54 - 58 *	Water dispersion of a low molecular weight epoxy resin	As varnish and binder of paints for wood, wood fibre boards, concrete, metals and others

WATERBORNE ALKYD RESINS							
CHS-ALKYD AL 3961	29	FA ¹	17,0 - 20,0	74,0 - 76,0	max. 39	Short oil alkyd in butyl glycol and butanol, water reducible after pH adjustment to 8,4 - 8,6 with amonia or amine	Primers, topcoats and one-layer coatings (air dry, force dry, baking with melamine resins)
CHS-ALKYD AL 3964	26	FA	13,0 - 18,0	69,0 - 71,0	max. 42	Short oil alkyd in butyl glycol and butanol, water reducible after pH adjustment to 8,2 - 8,6 with amonia or amine	Primers, topcoats and one-layer coatings (air dry, force dry, baking with melamine resins)
CHS-HYDROSPOL D 01	27	Linseed	0,02 - 0,16	42,0 - 46,0	7 - 9 *	45% water VOC free urethanised dispersion of linseed oil alkyd resin, milky dispersion, fast-drying & outdoor resistance	Steel anticorrosion primer, wood stains
CHS-HYDROSPOL D 101	27	Soya	0,02 - 0,16	44,0 - 46,0	6 - 8 *	45% water VOC free urethanised dispersion of soya oil alkyd resin, milky dispersion, fast-drying & outdoor resistance & low yellowing	Topcoats or one-coat-systems, low and high built wood stains, wall paints
CHS-HYDROSPOL D 401	40	Soya	0,02 - 0,16	44,0 - 46,0	7 - 9 *	45% water VOC free urethanised dispersion of soya oil alkyd resin, milky dispersion, fast-drying & outdoor resistance & low yellowing	Topcoats or one-coat-systems, low and high built wood stains

HIGH SOLID & SOLVENTLESS ALKYD RESINS							
CHS-ALKYD LUR 740 NN 80	74	Linseed	6,5 - 9,2	78,0 - 81,0	max. 4	High solid alkyd resin, flash point over 61°C, fast-drying & excellent hardness. coatings for wood and metal	Metal & wood coatings
CHS-ALKYD S 618 W 80	61	Soya	5,7 - 7,5	77,5 - 81,0	max. 7	Soya bean oil alkyd resin, modified, air-drying paints for exterior wood and metal	Wood & metal, air-drying paints for exterior, civil engineering
CHS-ALKYD SUR 735 NN 80	80	Soya	6,5 - 8,5	78,5 - 81,5	max. 4	High solid alkyd resin, fast air-drying, good hardness, gloss retention and weather-resistance, wood & metal	Wood & metal coatings
CHS-ALKYD TI 870	87	TOFA	2,2 - 3,2	97,0 - 100,0	max. 8	Air-drying long oil alkyd resin, solventless, low yellowing	Wood topcoats, reactive diluent for low VOC paints, economical
CHS-ALKYD TRI 841	84	TOFA, DCO	2,5 - 3,5	97,0 - 100,0	max. 10	Air-drying alkyd resin, solventless, fast-drying, durability, low yellowing	Wood topcoats, reactive diluent for low VOC paints
CHS-ALKYD TRIM 551 W 85	55	TOFA	2,5 - 4,5	83,5 - 86,5	max. 10	High solid alkyd, fast - drying, anticorrosive	Wood & metal coatings



Quality, protection of the environment and safety are key factors of our company policy. Spolchemie supports environmental friendly and sustainable chemistry through modern and clean production technology, increase of renewable resources content, reducing carbon footprint, more effective use of energy and high safety standards.

We are committed to produce environmentally friendly resins with high performance. Waterborne alkyd and epoxy resins (CHS-HYDROSPOL, CHS-EPOXY) and

high solid & solvent less alkyd resins (CHS-ALKYD) meet customers' needs for eco alternatives to conventional materials. Our new product line CHS-EPOXY G provides indisputable environmental benefits. Thanks to new proprietary, patented technology we are able to offer a range of environmentally friendly solutions that meet customers' needs for eco alternatives to conventional materials. Our environmentally friendly, green resins can be used in huge range of applications such as coatings, automotive, wind energy, electro & electronics, civil engineering etc.

Notes:

¹Linoleic rich fatty acids

Given the large number of products in our range, it is difficult to show all in a schematic overview. For more information please contact us.

GREEN RESINS



NOTES:

HARDENERS & REACTIVE DILUENTS



HARDENERS & REACTIVE DILUENTS

PRODUCT VISCOSITY AMINE NUMBER

HEW

DESCRIPTION

APPLICATION

HARDENERS

CHS-HARDENER P 11	5 - 10	1480 - 1680	21	Aliphatic amine	Standard, civil engineering, composites, adhesives
TELALIT 0309	50 - 70	1100 - 1200	30	Aliphatic polyamine, modified	Composites, civil engineering, accelerated, fast curing
TELALIT 0420	10 - 25	600 - 650	42	Cycloaliphatic amine	Composites
TELALIT 0430	5 - 50	1250-1320	43	Cycloaliphatic amine	Composites, civil engineering
TELALIT 0492	15 - 30	550 - 600	49	Cycloaliphatic modified	Composites, civil engineering
TELALIT 0500	5 - 50	1100 - 1200	50	Cycloaliphatic amine	Composites, accelerated
TELALIT 0590	5 - 10	440 - 490	59	Polyoxamine	Composites, long pot life
TELALIT 0600	80 - 100	450 - 500	62	Cycloaliphatic modified	High performance composites, long pot life
TELALIT 0903	200 - 500	320 - 350	90	Cycloaliphatic adduct modified	Self-levelling flooring, nonylphenol free
TELALIT 1040	10 - 30	230 - 260	104	Polyoxamine	Waterborne coatings, High solid coatings, nonylphenol free / Experimental
TELALIT 1203 INF	50 - 400	250 - 300	120	Cycloaliphatic adduct, modified	For solventless or high solid coatings, nonyl phenol free
TELALIT 160	200 - 700	110 - 135	350	Aliphatic adduct modified	Lacquers, anticorrosive coatings
TELALIT 180	750 - 1100	130 - 150	243	Polyamine adduct modified	Waterborne systems
TELALIT 2608	5 000 - 7000	95 - 115	260	Aliphatic and cycloaliphatic based modified	High performance super toughness adhesives
TELALIT 3404 X 70	700 - 2 000	145 - 165	340	Polyamide	Anticorrosive coatings, nonylphenol free
TELALIT 410	500 - 1 200	850 - 1 150	34	Aliphatic adduct	Composites, civil engineering
TELALIT 60	max. 1 500	min. 400	60	Aliphatic Mannich base	Low temperature, wet conditions, fast curing
TELALIT 95	200 - 500	300 - 500	95	Cycloaliphatic adduct modified	Self-levelling flooring

APPLICATION

DESCRIPTION

HYDROXYL EQUIVALENT WEIGHT

SOFTENING POINT

VISCOSITY

PRODUCT

PHENOLIC HARDENERS

TELALIT F 260	0,4 - 0,8	90 - 110	260 - 290	Phenolic hardener containing 0,7% curing accelerator and 2,5% flow modifier	For formulation of powder coatings with lower curing temperature, easier handling conditions, without labelling
TELALIT F 261	0,4 - 0,8	90 - 110	260 - 290	Phenolic hardener containing 2% curing accelerator and 2,5% flow modifier	For formulation of powder coatings with lower curing temperature, easier handling conditions, without labelling
TELALIT F 262	0,4 - 0,8	90 - 110	260 - 290	Phenolic hardener containing 3,5% curing accelerator and 2,5% flow modifier	For formulation of powder coatings with lower curing temperature, easier handling conditions, without labelling
TELALIT F 264	0,4 - 0,8	90 - 110	260 - 290	Phenolic hardener containing 1,9% curing accelerator	For formulation of powder coatings with lower curing temperature, easier handling conditions, without labelling

TELALIT F 265	0,4 - 0,8	90 - 110	260 - 290	Unmodified, phenolic hardener	For formulation of powder coatings with lower curing temperature, easier handling conditions, without labelling
TELALIT F 267	1,0 - 2,0	90 - 110	370 - 400	Unmodified, high molecular weight phenolic hardener for increased flexibility	For formulation of powder coatings with lower curing temperature, easier handling conditions, without labelling
TELALIT F 270	0,2 - 0,4	80 - 90	250 - 290	Phenolic hardener containing 0,7% curing accelerator and 2,5% flow modifier	For formulation of powder coatings with lower curing temperature
TELALIT F 271	0,2 - 0,4	80 - 90	250 - 290	Phenolic hardener containing 2% curing accelerator and 2,5% flow modifier	For formulation of powder coatings with lower curing temperature
TELALIT F 272	0,2 - 0,4	80 - 90	250 - 280	Phenolic hardener containing 3,5% curing accelerator and 2,5% flow modifier	For formulation of powder coatings with lower curing temperature
TELALIT F 274	0,2 - 0,4	80 - 90	250 - 290	Phenolic hardener containing 1,9% curing accelerator	For formulation of powder coatings with lower curing temperature
TELALIT F 275	0,2 - 0,4	80 - 90	250 - 290	Unmodified, phenolic hardener	For formulation of powder coatings with lower curing temperature
TELALIT F 277	0,5 - 1,5	90 - 110	370 - 400	Unmodified, high molecular weight phenolic hardener for increased flexibility	For formulation of powder coatings with lower curing temperature

PRODUCT VISCOSITY (25°C, mPas) EPOXY INDEX (mol/kg) HYDROLYSABLE CHLORINE (%) COLOUR (Gardner) DESCRIPTION APPLICATION

DILUENTS						
CHS-EPOXY RR 300	40 - 90	2,90 - 3,30	max. 0,3	max. 1	Polypropyleneglycol diglycidyl ether	Flexibilizer, low toxicity and vapour pressure, reduced reactivity, limited diluting power
CHS-EPOXY RR 330	5 - 10	3,35 - 3,70	max. 0,1	max. 1	C ₁₂ -C ₁₆ alkyl glycidyl ether	Low toxicity and vapour pressure, good diluting power, reduced reactivity
CHS-EPOXY RR 550	5 - 10	5,35 - 5,70	max. 0,2	max. 3	o - Cresyl glycidyl ether	Good water and acid resistance, excellent mechanical properties and low temperature cure, limited solvent resistance
CHS-EPOXY RR 690	100 - 250	7,20 - 7,70	max. 0,1	max. 1	Trimethylol propane triglycidyl ether	Excellent mechanical strength and reactivity, hot water and solvent resistance, limited diluting power
CHS-EPOXY RR 700	15 - 25	6,70 - 7,20	max. 0,2	max. 1	1,6 - Hexanediol diglycidyl ether	Excellent reactivity at low temperatures and good solvent resistance, high mechanical strength, limited acid resistance
CHS-EPOXY RR 800	10 - 25	7,60 - 8,10	max. 0,2	max. 1	1,4 - Butanediol diglycidyl ether	Excellent reactivity at low temperatures and good solvent resistance, high mechanical strength, limited acid resistance

PRODUCT VISCOSITY (25°C, mPas) EPOXY INDEX (EQ/100g) HYDROLYSABLE CHLORINE (%) COLOUR (Gardner) DESCRIPTION APPLICATION

CYCLOALIPHATIC EPOXY RESINS						
CHS-EPOXY RR 560	500 – 1 300	0.550 -0.580	-	max. 1	Hexahydrophthalic acid diglycidyl ester	Cycloaliphatic epoxy resin used for production of outdoor transformers, insulators, bushings etc.

Given the large number of products in our range, it is difficult to show all in a schematic overview. For more information please contact us.

HARDENERS & REACTIVE DILUENTS





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INTRODUCTION

SPOLCHEMIE is a manufacturing company, occupying a leading position among manufacturers of chemical raw materials in Central Europe. We have been in business since 1856. Our manufacturing factory, R&D and head office are located in Ústí nad Labem (Czech Republic), around 90km north of Prague and 50 km south of Dresden. Spolchemie is structured in three business units serving a variety of industries and industrial sectors. The resins business unit is the largest making up over two thirds of Spolchemie's business.

BU RESINS consist of four product groups - epoxy resins, unsaturated polyesters, alkyds and rosin based resins. In the area of epoxy resins the company is backward integrated into the production of key raw materials - Epichlorhydrin and Bisphenol A.

BU RESINS aims to be a dynamic, market driven, European producer of epoxy and alkyd resins, providing excellent products and service to our customers. Our management focuses our strategy on creating value. Thanks to R&D, in touch with the market, a wide product range is offered covering various innovative and environmentally friendly products to suit our customers' requirements. Above all, behind each product are qualified people that SPOLCHEMIE wishes to stimulate in their own development.



The information, and, in particular, the recommendations relating to the application and end-users of Spolchemie products, are given in good faith on Spolchemie's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practise, the differences in material and actual conditions are such that no warranty in respect on merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. Users should always refer to the most issue of the technical and application data sheet for the product concerned, copies you will find on www.spolchemie.cz

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