

BENASOL - Alkyd Resins SHORT- OIL												
BENASOL	Oil type and Modification	Oil %	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	Applications				Suggested uses
								Air	Bake	Nitro	Catalyz.	
<b>AS 280</b>	Soya	28	XYLENE BUTYL ACETATE.	60	Y - Z1	6 - 15	5	■	■	■	■	Fast air-drying and low curing oven temperature enamels with excellent outdoor and chemical resistances.
<b>CO 34</b>	Special Fatty Acids	34	TOLUENE	60	Y - Z1	6 - 15	5	■				Fast air-drying white and coloured enamels for industrial applications and traffic paints.
<b>AS 379</b>	Special Fatty Acids	43	XYLENE	60	Z1-Z2	6 - 12	5	■				Fast air-drying white and coloured enamels for industrial applications.
<b>AS 3716</b>	Special Fatty Acids	37	BUTYL ACETATE	75	Z3 - Z4	6 - 12	5	■				HIGH SOLIDS fast air-drying white and coloured enamels for industrial applications.
<b>CO 35</b>	Soya Fatty Acids	35	XYLENE	60	Z2 - Z4	6 - 15	8	■				Very fast air-drying enamels for industrial applications and traffic-paints.
			XYLENE/ BUTYLACET.	65	Z2 - Z3							
<b>CO 37</b>	Special Fatty Acids - Urethane Aliphatic	37	BUTYL ACETATE	65	Z1 - Z2	6 - 12	4	■				Very fast non-yellowing air-drying enamels for outdoor applications, particularly for agricultural equipment.
<b>R 40D</b>	Dehydrated castor oil	40	XYLENE	60	Z - Z1	15 - 24	5	■	■			Non-yellowing air-drying and low curing oven temperature enamels with high mechanical performance.
<b>4 V</b>	Linseed - Tung Phenolic	33	XYLENE	50	W - Y	23 - 30	8	■				Rust-inhibitive metal and non lifting primers for nitrocellulose laquers, for metals.
			BUTYL ACET.	60	Y - Z1	15 - 26						

BENASOL - Alkyd Resins MEDIUM - OIL												
BENASOL	Oil type and Modifications	Oil %	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	Applications				Suggested uses
								Air	Bake	Nitro	Catalyz.	
<b>AS 308</b>	Soya Fatty Acids	47	XYLENE XYLENE/W.S.	60 55	Z1 - Z2 Z - Z2	6 - 12	6	■				Fast air-drying enamels for building and industrial applications, also combined with chlorinated rubber. Fast through-dry.
<b>AS 452</b>	Special Fatty Acids	37	SOLVESSO 100	75	X - Z	4 - 8	6	■	■	■	■	Universal tinting-system vehicle having wide compatibility with resins and film-forming binders.
<b>AS 453</b>	Special Fatty Acids	42	SOLVESSO 100	70	V - Y	4 - 10	6	■	■	■	■	Universal tinting-system vehicle having wide compatibility with resins and film-forming binders.
<b>FL 40</b>	Special Fatty Acids	48	WHITE SPIRIT	40	Z2 - Z3	6 - 15	6	■				Slightly thixotropic resin for architectural sealers, high quality non-yellowing matt topcoats, also suitable for "do-it-yourself" applications.
<b>L 50 AV</b>	Linseed	49	WHITE SPIRIT AROMATIC FREE	50	Z3-Z5	6 - 16	7	■				Air-drying metal primers and general purpose industrial enamels.
<b>S 50</b>	Soya	52	WHITE SPIRIT AROMATIC FREE	50	Z1-Z3	6 - 15	7	■				Non-yellowing air-drying enamels for decorative and industrial maintenance.
<b>5097</b>	Linseed - Tung Phenolic	42	XYLENE WHITE SPIRIT AROMATIC FREE	60 50	U-W Z-Z2	6 - 15	9	■				Quick air-drying primers and enamels with excellent chemical and outdoor resistance.

BENASOL - HIGH SOLIDS Alkyd Resins LONG - OIL -1-												
BENASOL	Oil type and Modification	Oil %	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	Applications				Suggested uses
								Air	Bake	Nitro	Catalyz.	
HS 75	Special unsaturated Fatty Acids	67	WHITE SPIRIT	75	Y - Z1	5 - 8	4	■				High performance non-yellowing paints for interior and exterior, building industry and "do-it-yourself" applications.
HS 753	Non yellowing unsaturated Fatty Acids	64	WHITE SPIRIT	75	Z2 - Z3	< 10	6	■				Good Price & Quality ratio suitable for non-yellowing paints, for interior and exterior, building industry and "do-it-yourself" applications.
HS 754	Non yellowing unsaturated Fatty Acids	63	WHITE SPIRIT AROMATIC FREE	75	Z1-Z3	5-10	6	■				Good Price & Quality ratio suitable for non-yellowing paints, for interior and exterior, building industry and "do-it-yourself" applications.
HS 86	Special unsaturated Fatty Acids	66	WHITE SPIRIT	80	Z - Z2	12 - 18	4	■				High performance non-yellowing paints for interior and exterior, building industry and "do-it-yourself" applications, conforming to <b>DECO paints CE 2004-42</b> .
HS 6922	Special unsaturated Fatty Acids	67	WHITE SPIRIT AROMATIC FREE	85	Z2 - Z3	8 - 15	7	■				General purpose non-yellowing paints for interior and exterior, for building industry and "do-it-yourself" applications, conforming to <b>DECO paints CE 2004-42</b> .
HS 7380	Special unsaturated Fatty Acids	65	WHITE SPIRIT AROMATIC FREE	85	Z - Z2	< 12	4	■				High performances non-yellowing paints for interior and exterior, building industry and "do-it-yourself" applications, conforming to <b>DECO paints CE 2004-42</b> . Excellent compatibility with concentrate medium oil pigmented pastes.
HS 7100	Special unsaturated Fatty Acids	69	WHITE SPIRIT	80	Z - Z2	< 10	5	■				High performance non-yellowing paints for interior and exterior, building industry and "do-it-yourself" applications", conforming to <b>DECO paints CE 2004-42</b> .

BENASOL - HIGH SOLIDS Alkyd Resins LONG - OIL -2-												
BENASOL	Oil type and Modification	Oil %	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	Applications				Suggested uses
								Air	Bake	Nitro	Catalyz.	
SI83	Non yellowing unsaturated Fatty Acids	83	---	99	Z1 - Z2	6 - 10	4	■				<b>Economical grade.</b> High Solid resin suitable for cutting the viscosity when formulating enamels conforming to <b>DECO paints CE 2004-42</b> . Grinding vehicle to produce non Yellowing tinting pastes and to increase the build-up and the brush ability of conventional paints.
FX 97	Special unsaturated Fatty Acids	73	---	98	Z3 - Z4	6-15	6	■				<b>Very fast</b> High Solid resin suitable for cutting the viscosity when formulating enamels conforming to <b>DECO paints CE 2004-42</b> . Grinding vehicle to produce non Yellowing tinting pastes and to increase the build-up and the brush ability of conventional paints.
HS 120	Special unsaturated Fatty Acids	80	---	99	X - Y	< 5	6	■				<b>Fast</b> High Solid resin suitable for cutting the viscosity when formulating enamels conforming to <b>DECO paints CE 2004-42</b> . Grinding vehicle to produce non Yellowing tinting pastes and to increase the build-up and the brush ability of conventional paints. Good compatibility with medium oil pigmented pastes.

BENASOL - Alkyd Resins LONG - OIL -3-												
BENASOL	Oil type and Modification	Oil %	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	Applications				Suggested uses
								Air	Bake	Nitro	Catalyz.	
<b>FX66</b>	Special unsaturated Fatty Acids	67	WHITE SPIRIT AROMATIC FREE	70	Z1 – Z3	6 - 8	3	■				High performance non-yellowing paints for interior and exterior, building industry and "do-it-yourself" applications. Very good colour retention also in the dark.
<b>L65</b>	Linseed	65	WHITE SPIRIT AROMATIC FREE	70	Z3 – Z4	6 - 12	7	■				Coloured enamels and rust-inhibiting air-drying primers for building industry and "do-it-yourself".
<b>S60</b>	Soya	62	WHITE SPIRIT	70	Z – Z1	6 - 12	6	■				Architectural enamels for interior and exterior applications.
<b>T68</b>	Talloil	68	WHITE SPIRIT	75	Z - Z1	6 - 15	9	■				High-solids enamels for building industry. Clear finishes and impregnating vehicles for wood.
<b>1804</b>	Linseed - Tung Phenolic	68	WHITE SPIRIT AROMATIC FREE	65	Y – Z1	6 - 10	9	■				Anticorrosive primers, enamels and clear finishes with excellent resistance to marine corrosion.

BENASOL - Alkyd Resins HYDROXYLATED - 1-													
BENASOL	Oil type and Modification	Oil %	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	OH % Solids	Applications				Suggested uses
									Air	Bake	Nitro	Catalyz.	
<b>A 240</b>	Hydrogenated Castor Oil	44	XYLENE/BUTYL ACETATE	60	Y - Z1	6 - 15	5	5.3 - 5.7			■	■	Urethane two-components non-lifting sealers and very hard matt topcoats for wood.
<b>B1</b>	Vegetable Fatty Acids	30	XYLENE	50	X - Y	6 - 15	5	2.6 - 2.8			■	■	Urethane two-components matt topcoats and sealers with high reactivity and easy sandability.
<b>C 300</b>	Coconut Fatty Acids	33	XYLENE	60	Z1 - Z2	6 - 15	3	2.8 - 3.0		■	■	■	Non-yellowing baking enamels. Polyurethane topcoats and nitrocellulose lacquers.
<b>E 114</b>	Synthetic Fatty Acids	25	XYLENE	75	Z3 - Z5	6 - 15	3	5.4 - 5.6		■	■	■	Clear and pigmented topcoats for metals and wood. Large compatibility with acrylics, polyesters, alkyds and film-forming vehicles. Universal tinting-systems.
<b>E 184</b>	Synthetic Fatty Acids	28	XYLENE	70	Z1 - Z3	6 - 12	3	2.3 - 2.5		■	■	■	Non-yellowing nitrocellulose lacquers for automotive finishes. Bake and two-components polyurethane enamels.
<b>F 71</b>	Hydrogenated castor oil/ Vegetable Fatty Acids	41	XYLENE	60	Z1 - Z2	15 - 20	4	4.4 - 4.6			■	■	Two-components polyurethane glossy or matt finishes, sealers, endowed with high transparency.
<b>F 73</b>	Hydrogenated Castor Oil	43	BUTIL ACETATE	70	X - Z	15 - 23	4	4.5 - 4.7				■	High-quality clear and pigmented polyurethane finishes for wood.
<b>4377</b>	Non-drying Fatty Acids	41	XYLENE	65	V-W	6 - 12	3	2.4-2.6			■	■	Binder for nitro cellulose sealers and topcoats both for metal and for wood.

BENASOL - Alkyd Resins HYDROXYLATED - 2-													
BENASOL	Oil type and Modification	Oil %	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	OH % Solids	Applications				Suggested uses
									Air	Bake	Nitro	Catalyz.	
<b>RC 45</b>	Castor / Vegetable Fatty Acids	42	XYLENE	60	Z1 - Z3	6 - 15	6	4.2 - 4.4		■	■	■	Excellent polyurethane sealers and matt finishes for wood. Nitrocellulose lacquers.
<b>RC 75</b>	Castor	78	XYLENE	80	X - Y	6 - 10	5	5.8 - 6.0			■	■	High-gloss polyurethane finishes and vehicle to improve the general performances of wood systems. Plastifying agent for nitrocellulose systems
<b>R 126</b>	Castor	53	XYLENE	60	X - Y	6 - 15	5	5.4 - 5.6			■	■	Polyurethane clear finishes and lacquers for wood and metals. Plastifying agent for nitrocellulose systems
<b>R 127</b>	Castor	59	XYLENE	60	W - Y	6 - 15	5	5.2 - 5.4			■	■	Polyurethane high build-up clear finishes and lacquers endowed with good adhesion and flexibility for metals and wood. Plastifying agent for nitrocellulose systems
<b>RT 43</b>	Castor / Talloil	43	XYLENE	60	Z1 - Z2	6 - 15	6	4.0 - 4.2			■	■	Sealers and topcoats with high build-up and fast drying properties.
<b>SI 25</b>	Special fatty acids	25	XYLENE	60	X - Y	6 - 15	3	7.2-7.4				■	High-gloss polyurethane finishes endowed with high hardness and gloss even after polishing the paint. Reactive with aliphatic isocyanates.
<b>SI 32</b>	12-Hydroxy stearic	30	BUTYL ACETATE	70	Z1 - Z3	6 - 15	4	5.7-5.9				■	It's recommended to formulate high glossy topcoat easy to be polished in a very short time, especially addressed to wood coating applications. Very reactive with aliphatic isocyanates.
<b>T 35</b>	Talloil	35	XYLENE	50	Z1 - Z3	6 - 15	5	4.5 - 4.7		■	■	■	General industrial baking enamels. Hammer bake coatings. Nitrocellulose sealers and topcoats both for wood and metal.

BENASOL - Oils and Resins U ETHANE MODIFIED									
BENASOL	Oil type	Oil %	Modification	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	Suggested uses
UR 59 X	Vegetable Oils	56	Aromatic Isocyanate	XYLENE	50	Z2 - Z4	1 - 3	6	One-component sanding sealers and fast-drying matt finishes for wooden frames. Compatible with nitrocellulose and vinyl copolymers.
UR 59 WS	Vegetable Oils	58	Aromatic Isocyanate	WS AROMATIC FREE**	50	Z2 - Z4	1 - 3	6	One-component air-drying glossy and flat finishes, suggested for floors, window and door frames.
UR 60	Vegetable Oils	65	Aromatic Isocyanate	WS AROMATIC FREE**	60	Z2 - Z4	1 - 3	6	One-component fast-drying clear varnishes with good resistance to industrial and marine environment. Coatings for floors, wooden frames and "do-it-yourself" applications.
UR 61	Soya Fatty Acids	60	Aromatic Isocyanate	WS AROMATIC FREE	60	Z1 - Z3	2 - 8	7	Alkyd-urethane resin endowed with outdoor resistance, suggested for formulating clear or pigmented finishes for wood and metals.
UR 64	Soya Fatty Acids	61	Aromatic Isocyanate	WS AROMATIC FREE	55	Z - Z2	1 - 3	5	Alkyd-urethane resin endowed with outdoor resistance, suggested for formulating clear or pigmented finishes for wood and metals.
UR 65	Special Fatty Acids	58	Aliphatic Isocyanate	WS AROMATIC FREE	55	Z2 - Z3	2 - 6	5	Non-yellowing varnishes and paints endowed with high-gloss retention, hardness and chalk-resistance.
UR 4984	Safflower	65	Aliphatic Isocyanate	WS AROMATIC FREE	60	Z1 - Z3	1 - 3	4	Non-yellowing clear and pigmented coatings with excellent properties of through-dry, hardness, adhesion, chemical and marine resistance. Premium quality finishes for yachts and "do-it-yourself".
UR 6005	Safflower	67	Aliphatic Isocyanate	WS AROMATIC FREE	70	Z1 - Z3	1 - 3	4	Non-yellowing clear and pigmented coatings with excellent properties of through-dry, hardness, adhesion, chemical and marine resistance. Premium quality finishes for yachts and "do-it-yourself", <b>conforming to DECO paints CE 2004-42</b> .
UR 85	Special vegetable Fatty Acids	63	Isocyanic Modification	WHITE SPIRIT	85	Z1 - Z3	5	6	Non-yellowing clear and pigmented coatings with excellent properties of through-dry, hardness, adhesion, chemical and marine resistance. Particularly suggested in clear and pigmented matt finishes. Premium quality finishes for yachts and "do-it-yourself", <b>conforming to DECO paints CE 2004-42</b> . Good compatibility with concentrate medium oil pigmented pastes.
FL 34	Drying Fatty Acids	59	Aromatic Isocyanate	WS AROMATIC FREE	55	Z - Z2	1-3	5	Medium thixotropy binder to be used for high build up sealers for wood and metal <b>conforming to DECO paints CE 2004-42</b> .

\*\*= available also in Exol D 60 Version

**SYMBASE WOOD SP. Z O.O.**  
Robakowo, ul. Firmowa 16  
62-023 Gądko

(+48) 61 10 10 444  
office@symbase-group.com  
www.symbase-group.com

NIP: 7773374019  
KRS: 0000901697  
REGON: 388975927

BENESTER - SATURATED POLYESTERS - 1-								
BENESTER	Type	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	(OH) % Solids	Suggested uses
<b>694</b>	Linear	SOLVENT NAPHTA AB BUTYLGLYCOL	55	Y - Z1	2 - 6	3	0.6 - 0.8	Fast baking cycles for coil-coating. Anticorrosive primers also for automotive industry.
<b>T 76</b>	Slightly Branched	SOLVESSO 100 BUTYLGLYCOL	65	X - Z	2 - 10	2	1.6 - 1.8	Economical Grade resin, for oven-systems where post-formability is required, like in can or coil-coating applications.
<b>5918</b>	Linear	SOLVESSO 100 BUTYLGLYCOL	70	V - X	< 5	2	2.2 - 2.4	High – yield coil – coating enamels with very good characteristics of build – up adhesion, flexibility and hardness.
<b>L 83</b>	Slightly Branched	SOLVENT NAPHTA AB BUTYLGLYCOL	60	Z - Z1	2 - 6	3	1.0 - 1.2	Coil-coating enamels for interior/exterior applications, endowed with high flexibility, glossy, colour retention.
<b>910</b>	Slightly Branched	SOLVENT NAPHTA AB BUTYLGLYCOL	60	Y - Z1	2 - 6	3	1.6 - 1.8	Coil-coating enamels particularly indicated for out door applications, endowed with high flexibility, gloss and colour retention.
<b>2580</b>	High aliphatic content	BLEND OF SOLVENTS	70	Y - Z	5 - 10	2	0.9 - 1,1	High – yield coil – coating enamels with very good characteristics and adhesion on metals without primer.
<b>5327</b>	Linear	SOLVENT NAPHTA AB BUTYLGLYCOL	75	Z – Z2	3 - 10	3	2.0 - 2.2	Plasticizer vehicle for can and coil-coating systems.
<b>46</b>	Linear/ Slightly branched	SOLVENT NAPHTA AB BUTYLGLYCOL	60	W - Y	< 5	3	0.5 – 0.7	Plasticizer vehicle for can and coil-coating systems where post-formability and outstanding weatherability properties.

BENESTER - SATURATED POLYESTERS - 2-								
BENESTER	Type	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	(OH) % Solids	Suggested uses
<b>602</b>	Linear	SOLVENT NAPHTA AB BUTYL GLYCOL	65	U - V	5 - 10	2	1.3 - 1.5	Back coatings, especially recommended for coil-coating with very high solid contents.
<b>27</b>	Slightly Branched	NAPHTA SOLVENT BUTYL GLYCOL	70	U-W	4-10	3	2.8 - 3.0	Back coatings, and especially recommended for coil-coating with high solid content and for industrial baking enamels with very good characteristics of flexibility, adhesion and gloss.
<b>742</b>	Slightly Branched	XYLENE	65	V - X	18 - 22	2	/	Primers and enamels for industrial coatings, cross-linked with amino-resins, to formulate bake-primers or finishes. Particularly suggested in metallic base-coats formulation for car finishes. Wide compatibility with CAB (Cellulose Aceto Butyrate).
<b>PZ 300</b>	Aliphatic - Linear	---	100	V - X	8 - 18	5	2.0 - 2.2	Plasticizer polymer for two-component polyurethane systems for metal and plastic. Plasticizer vehicle for can and coil-coating systems. Grinding vehicle for pigmented "master batches" pastes.
<b>896</b>	Slightly Branched	SOLVESSO 100 BUTYLGLYCOL	55	V - X	3 - 8	3	1.2 - 1.4	Cross-linked with amino- resins or blocked poly-isocyanates, in industrial baking primers and enamels, particularly for base-coatings and over-print varnishes with good printability properties also with UV inks, in cans, spray-bottles and collapsible tubes.
<b>839</b>	Slightly Branched	SOLVENT NAPHTA AB BUTYLGLYCOL	55	X - Y	3 - 8	3	1,4-1,6	Modified saturated Polyester, cross-linked with Benzoguanamine Resins suitable for Organosols production.

SILICONE MODIFIED RESINS								
Type	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	(OH) % Solids	Suggested uses	
<b>BENASOL SL - SILICONE ALKYDS</b>								
<b>SL 58</b>	Air drying medium oil Alkyd Silicone Modified	WHITE SPIRIT AROMATIC FREE	60	Y - Z1	6 - 12	6	---	High quality pigmented or clear finishes for industry, with high brightness retention, even after long outdoor or marine environment exposure. Enamels to be applied when resistance to temperature (180 – 220°C) is required.
<b>BENESTER SL - SILICONE POLYESTERS</b>								
<b>EPOBEN SL 74</b>	Silicone Modified Epoxy - Ester	XILENE	60	X - Z	5 - 12	6	---	Heat resistant enamels endowed with characteristics of adhesion, hardness, very good moisture and salts resistances. Suggested for industrial applications (over 250°C).
<b>SL 260</b>	Silicone Polyester	M.P.A.	65	Z2 – Z3	8 - 20	3	---	Excellent resistance to medium / high temperatures. Suitable to produce enamels endowed with high gloss level, outdoor durability and chemicals resistance properties. Suggested for industrial applications (over 250°C).
<b>SL 261</b>	Silicone Polyester	M.P.A.	55	U -W	//	2 mass.	---	Excellent resistance to medium / high temperatures. Suitable to produce enamels endowed with high gloss level, outdoor durability and chemicals resistance properties. Suggested for industrial applications (over 250°C).

**BENESTER - UNSATURATED POLYESTERS**

<b>BENESTER</b>	<b>Solvent or Monomer</b>	<b>Solids %</b>	<b>Visc. [G.H.]</b>	<b>A.V. Solids</b>	<b>Colour [G.H.] max.</b>	<b>Suggested uses</b>
<b>LD 75 R</b>	BUTYL ACETATE	75	Z3-Z4	24 - 36	3	Clear and pigmented sealers for wood, easy to be sanded. Clear finishes endowed with good brightness and high hardness. Curing by U.V. or Redox processes. It can be also used to produce tinting-pastes.
<b>G 22</b>	BUTYL ACET.	80	Z1 – Z3	24 - 36	2	Self-curing, styrene-free polyester for clear and pigmented sealers and finishes for wood furniture.

ISOBEN - HYDROXYLATED POLYESTERS												
ISOBEN	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	OH % Solids	Applications				Suggested uses	
							Air	Bake	Nitro	Catalyz.		
IS. 5	XILENE M.P.A.	67	Z4-Z6	2-10	2	8.0 - 8.2				■	High chemical resistant polyurethane coatings, suggested for building industry and maintenance.	
IS. 6	BUTYL ACETATE.	70	Y - Z1	15 - 24	3	4.0 - 4.2			■	■	Polyurethane enamels for wood and metals. Marine and automotive industry coatings when high mechanical and durability resistances are required. Good compatibility with acrylic resins.	
IS. 10	BUTYL ACETATE	70	Z - Z2	12 - 22	3	2.5 - 2.7				■	Industrial polyurethane coatings, at low request of Poly Isocyanate hardener. Overprint varnishes. Fast curing. Good compatibility with acrylic resins.	
IS. 11	---	100	T-V (80%Al)	2 - 6	3	5.9 - 6.1				■	Polyurethane wood coatings; particularly suggested for floor varnishes, when combined with other hydroxylated pure alkyds.	
IS. 15	BUTYL ACETATE	75	Z4-Z5	6-12	<1	4,5-4,7				■	Very good compatibility with acrylic resins; it's really recommended for car refinishing industrial and wood paints also for marine outdoor applications, combined with alpha isocyanates.	
IS. 87	BUTYL ACETATE	70	Z - Z2	10-18	2	5.1 - 5.3				■	Clear and pigmented finishes for wood, endowed with high build-up and hardness. Enamels for metals, interior/exterior.	
IS. 168	BUTYL ACET.	80	Y - Z1	10 - 20	3	5.1 - 5.3				■	■	HIGH SOLIDS polyurethane enamels for wood and metals. Marine and automotive industry coatings when high mechanical and durability resistances are required. Good compatibility with acrylic resins.

ACRIBEN - HYDROXYLATED ACRYLIC RESINS											
ACRIBEN	Solvent	Solid s %	Visc. [G.H.]	A.V. Solids	Colour [HAZEN] max.	OH % Solids	Applications				Suggested uses
							Air	Bake	Nitro	Catalyz.	
<b>RF 450</b>	XILENE BUTYL ACETATE	50	Z3 - Z5	//	2	0.9 – 1.1	■	■		■	ACRIBEN RF450 is a low hydroxyl acrylic binder suggested to formulate pigmented PUR- Sealers coatings with good adhesion on plastic and metallic surface

HARTBEN - Adducts and polyisocyanates POLYURETHANES								
HARTBEN	Type	Solvent	Solids %	Visc. [G.H.]	Colour [G.H.] max.	NCO %	Free monomer %	Suggested uses
<b>SV 100</b>	Aromatic Polyisocyanurate	BUTYL ACETATE	50	T - V	2	7.8 - 8.2	< 0,5	Very fast-curing sealers with easy hand or mechanical sandability, to be plasticized by adding Hartben 75 P/ST.
<b>E 23</b>	Aromatic Polyisocyanurate	BUTYL ACETATE	50	G - J	2	7.8 - 8.2	< 0,5	Fast-curing two-components sealers and finishes, by spray or curtain coating machine application, with good "pot-life" and lift resistance. Wide compatibility with nitrocellulose.
<b>AM 29</b>	Aliphatic-aromatic Polyisocyanurate	BUTYL ACETATE	60	N - Q	2	10.4 - 10.8	< 0,5	Polyurethane coatings with good colour retention, gloss, toughness and hardness. Recommended for metals and wood.
<b>75 P/ST</b>	Aromatic Adduct	ETHYL ACETATE	75	V - Y	1	12.5 - 13.5	< 0,5	Two-components sealers and clear or pigmented finishes, for wood and industrial applications. Flexibilizing agent for poli-isocyanurate aromatic products.
<b>A 75</b>	Aliphatic Polyisocyanurate	XYLENE / M.P.A.	75	D-I	2	14.5 - 16.5	< 0,5	Two-components non-yellowing clear or pigmented finishes for wood and metals. High mechanical performances and outdoor durability.
<b>MC 53</b>	Moisture-curing Aromatic Prepolymer	XYLENE / M. P. A.	60	H - L	3	5.5 - 6.5	< 0,5	One-pack glossy and matt lacquers for parquets and concrete floors.
<b>405</b>	Aromatic Polymer	ETHYL ACETATE	80	M - R	2	---	---	Elastomeric polymer, plasticizer and adhesion promoter for nitrocellulose. Flexography inks for paper and plastic substrates.

EPOBEN - EPOXY ESTERS												
EPOBEN	Fatty acid type	Oil %	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	Applications				Suggested used
								Air	Bake	Nitro	Catalyz.	
<b>R 403</b>	Dehydrated Castor Oil	40	XYLENE	50	T - W	0.5 - 1.5	4	■	■			Air-drying and baking primers, also suitable for industrial application enamels with excellent adhesion, alkali and solvent-resistant properties. Zinc-rich rust-inhibitive primers.
			SOLVESSO 100	60	Z3 - Z5		5					
<b>C0 74</b>	12-Hydroxy-Stearic Acid	35	XILENE	60	Z3 - Z5	1-3	7		■			Non-yellowing clear or pigmented baking finishes in combination with amino-resins. Excellent adhesion, post-formability and chemical resistance.

### BENCRYL UV- EB RADIATION CURING PRODUCTS

BENCRYL	Type	Monomer	Theoretical Solids %	Visc. [G.H.]25°C	A.V. Solids	OH% Solids	Functionality of prepolymer	Colour [G.H.] max.	Suggested uses
<b>PU 141</b>	Branched Aliphatic Urethane Acrylated Olygomer	TPGDA	57	Z1 – Z2	1 max.	---	>2,0	1	Non yellowing clear topcoats for wood, paper and plastic substrates endowed with <b>good</b> flexibility, abrasion and chemicals resistance. Suitable when used in combination with isocyanates for dual cure systems.
<b>PU 137</b>	Linear Aliphatic Urethane Acrylated Olygomer	HDDA OTA	66	Z3 – Z5	1 max.	---	>2,0	1	Non yellowing clear topcoats endowed with <b>excellent</b> flexibility, durability and abrasion resistance, for wood, paper and plastic substrates.
<b>PU 139</b>	Branched Aromatic Urethane Acrylated Olygomer	HDDA	70	Z2 – Z3	1 max.	---	>2,0	1	Clear topcoats endowed very good abrasion resistance, for wood.
<b>PU 1515</b>	Linear Aromatic Urethane Acrylated Olygomer	TPGDA	70	Z – Z2	1 max.	---	>2,0	1	Clear topcoats endowed with <b>good</b> flexibility, abrasion and chemicals resistance, for wood, paper and plastic substrates.

<b>BENALAC - Alkyd Resins for INKS</b>								
<b>BENALAC</b>	<b>Oil type</b>	<b>Oil %</b>	<b>Solvent</b>	<b>Solids %</b>	<b>Visc. [G.H.]</b>	<b>A.V. Solids</b>	<b>Colour [G.H.] max.</b>	<b>Suggested uses</b>
<b>UR 81</b>	Linseed	78	---	100	Z3 - Z5	0 - 1	9	Particularly recommended for fast drying "off set" inks. Wood stains with very good impregnating properties and suitable to cut the viscosity in high solid systems conforming to <b>VOC CE 2004-42</b> . Suitable also for pigmented pastes and to improve the brush ability of the final paint.
<b>5660</b>	Special Fatty Acids	70	---	100	30000-37000*	6 - 15	5	Non yellowing air drying binder suitable for "off set" inks, with excellent wetting power, good setting, drying and scuff resistance properties.

\*=viscosity brookfield mPas 25°C

<b>BENASOL – THIXOTROPIC ALKYDS RESINS</b>												
<b>BENASOL</b>	Fatty acid type	Oil %	Solvent	Solids %	Visc. [G.H.]	A.V. Solids	Colour [G.H.] max.	Applications				<b>Suggested used</b>
								Air	Bake	Nitro	Catalyz.	
<b>GEL 220</b>	Special Fatty Acids	55	WHITE SPIRIT AROMATIC FREE	50	Gel	6 - 15	9	■				Soft-gel fast drying alkyd resin with medium thixotropic behaviour, endowed with very good flow, body, colour retention and anti sagging properties. Employed alone or combined with medium-long oil alkyd resins to formulate enamels or paints for wood and "do it Your self" applications.

POLIFEN – PHENOLIC RESINS											
POLIFEN	Type	Solvent	Solids %	Viscosity	Colour	Applications			Suggested uses		
						Bake					
<b>365</b>	Hydro - dilutable Phenolic Resin	BUTYL GLYCOL BUTYL DIGLYCOL	60	Z – Z3 [Gardner Holdt.]	8 [Gardner Hellige]	■			Resin suggested in combination with w/b epoxy resins to produce pigmented enamels suitable for drums interior parts. Conforming to <b>FDA 21 CFR 175.300.</b>		
<b>410</b>	Phenolic Resin Solution	BUTANOL	45	25"-40" [Cup Ford 4 25°C]	Yellow Brown	■			Resin endowed with good reactivity, adhesion on aluminium and tin plates. Suggested in combination with type 1007 and 1009 epoxy resins.		
<b>2090</b>	Etherified Non-plasticized Phenolic Resin	BUTANOL TOLUENE (4/1)	58	340 - 590 mPas [Brookfield]	5 [Gardner Hellige]	■			Particularly suitable for gold can coating paints and for high chemical resistance enamels for industrial applications. Conforming to <b>FDA 21 CFR 175.300.</b>		
<b>6120</b>	High solid Phenolic Resin BPA & BADGE Free	BUTANOL	80	100 - 200 mPas [Brookfield]	50 max. [Lovibond]	■			Resin with high Flexibility, Adhesion and Chemical Resistance. Particularly suitable for Can Coating applications.		

EPOFEN – EPOXY PHENOLIC RESINS											
EPOFEN	Type	Solvent	Solids %	Viscosity [Brookfield] mPa.s	Colour	Applications			Suggested uses		
						Bake					
<b>254</b>	Pre-Condensed Epoxy Phenolic	BUTANOL NAPHTA BUTYL GLYCOL	37	700 -1100	Yellow Orange	■			Resin endowed with high Flexibility, particularly suitable for indoor/outdoor lacquers and enamels for Can Coating applications. Conforming to <b>FDA 21 CFR 175.300</b> .		
<b>2319</b>	Pre-Condensed Epoxy Phenolic	BUTANOL PMA TOLUENE	41	450 - 950	4 max. [G.H.]	■			Particularly suitable for packaging and for wash coat applications for metals.		
<b>W 1205</b>	Self - curing Epoxy Phenolic W/B dispersion,	WATER ETHERGLYCOL ALCOHOLS	29	500-3500	Milky white	■			Polymer suitable for “pasteurization” resistant can coating lacquers and enamels, eventually combined with melamine resins. Conforming to <b>FDA 21 CFR 175.300</b> .		

EPOSOL – SPECIAL RESINS											
EPOSOL	Type	Solvent	Solids %	Viscosity [Brookfield] mPa.s	Colour	Applicazioni				Usi suggeriti	
						Bake					
<b>7</b>	Epoxy Resin. Medium – High Molecular Weight	BUTYLGLYCOL SOLVESSO 100	40	450-700	< 8 [Lovibond]	■					Suitable for lacquers and enamels for can coating and drums applications when properly combined with Phenolic and/or Melamine binders.
<b>9</b>	Epoxy Resin. High molecular weight	BUTYLGLYCOL SOLVESSO 100	41	900-1500	< 8 [Lovibond]	■					Resin that shows higher Flexibility, Hardness and Chemical Resistance than Eposol 7, suggested in combination with Phenolic, Melamine or Polyamide binders.
<b>AP 100</b>	Adhesion Promoter	BUTYL GLYCOL	63	Y-Z2 [Gardner.H]	3 max. [G.H.]	■					Epoxy modified additive, suitable for improving adhesion and reactivity on different metal substrates, particularly for baking system.

### IDROBEN – EPOXY ACRILIC RESINS

IDROBEN	Type	Solvent	Solids %	Viscosity [Brookfield] mPa.s	Colour	Applications		Suggested uses
						Bake		
<b>E 530</b>	Self – Curing Epoxy Resin	BUTYLGLYCOL WATER	30	900-3500	Milky White	■		Resin endowed with very good adhesion and anticorrosive properties on zinc, steel and aluminium, also in combination with Methoxy Melamine resins. Suitable for “pasteurization” resistant lacquers and enamels to be used in can coating applications. Conforming to <b>FDA 21 CFR 175.300</b> .
<b>2643</b>	Epoxy Acrylic Resin	BUTYL GLYCOL WATER BUTANOL	23	30”-90” [Cup Ford 4 25°C]	Milky White	■		Resin endowed with very good adhesion and anticorrosive properties on zinc, steel and aluminium, when combined with Methoxy - Melamine resins. Very good adhesion on glass. Suitable for “pasteurization” resistant lacquers and enamels to be used in can coating applications. Conforming to <b>FDA 21 CFR 175.300</b> .