

Together we are Stronger



Product Catalogue



MEGARA RESINS®

A N A S T A S S I O S F A N I S S . A .

www.megararesins.com

THE COMPANY

Megara Resins S.A. is a diversified manufacturer and supplier of raw materials for industrial and architectural coatings as well as rosin based and other synthetic resins for the paint, adhesive, paper and construction industry. The company was established in 1961 and for over 40 years, it has been a pioneer in creating innovative technologies to help coatings formulators meet their customers' most demanding applications.

OUR MISSION

Our Mission, is to grow a portfolio of leading specialty chemical businesses, and generate added value for our customers and the company. We create sustainable value for our partners by delivering innovative products and solutions.

- We realize this mission by setting the highest standards in service, reliability, safety and cost containment in our industry.
- We deliver superior returns to our shareholders by tirelessly pursuing new growth opportunities while continually improving our profitability.
- We are committed to maintaining excellence, respect, and integrity in all aspects of our operations.

Together we are Stronger



Megara Resins remains firmly committed to the pillars of innovation and new technologies and is widely regarded as being the most innovative Greek supplier to the coatings industry through its continued investment in R&D, technical support and new product development. Innovations based on effective and efficient research and development, are an important growth factor for Megara Resins.

Megara Resins offers its customers advanced and diverse products and technologies for surfaces with an emphasis on environmentally friendly applications for a wide range of markets, based on gum rosin and its derivatives, alkyd resins, PU resins, acrylic resins, paper size chemicals and unsaturated polyester resins for car putties. For more information, please visit our website www.megararesins.com and find out more on our products and industries.



We are committed to working with our customers to continuously developing environmentally advanced solutions and we are dedicated to open communication concerning the safe handling, distribution, use and disposal of the products we manufacture. We create safe and health-conscious work environments, require compliance and embrace environmental stewardship.



Gum Products

Product	Softening Point Ring & Ball (°C)	Acid Value	Colour	Uses
Gum Rosin	80 - 90	170 - 180	WW - WG	Raw material for industrial uses
Gum Turpentine	B.P. = 150 - 160°C, α -Pinene > 95%, Optical Rotation = + 42 - 46°			

Rosin Esters

Procol	Composition	Softening Point Ring & Ball (°C)	Acid Value	Colour	Uses
5 G	Glycerol Ester	85 - 100	140 - 160	5 max	Tackifier
7 G - ST	Glycerol Ester	85 - 105	130 - 160	5 max	Non crystalizable tackifier
10 G	Glycerol Ester	83 - 93	7 max	5 max	Tackifier
10 GX	Glycerol Ester	84 - 93	10 max	5 max	Cosmetics
10 PLC	Modified Penta Ester	100 - 110	20 max	3 max	Road marking
10 PL ST	Penta Ester	92 - 102	10 max	5 max	Tackifier
10 TG	TEG Ester	Viscous Liquid (50.000 - 120.000 cP 25°C)	20 max	5 max	Liquid tackifier for floor adhesives
20 TG	TEG Ester	Viscous Liquid (3.500 - 6.500 cP 40°C)	20 max	8 max	Liquid tackifier for adhesives applications
10 GS	Glycerol Ester	87 - 97	7 max	5 max	Chewing gum & adhesives
14 GS	Glycerol Polymerised Ester	105 - 120	8 max	5 max	Chewing gum & adhesives
10 PLR	Penta Ester	108 - 115	20 max	5 max	Varnishes for interior use and gloss paints
Procolite P1	Penta Ester	95 - 105	15 max	3 max	Tackifier & hot melt adhesives
Procolite PST	Penta Ester	94 - 98	12 max	3 max	Tackifier & PSA tapes
Procolite G1	Glycerol Ester	83 - 90	10 max	2 max	Tackifier

Maleic Resins

Procol	Composition	Softening Point Ring & Ball (°C)	Acid Value	Colour	Uses
95	Glycerol	100 - 115	25 max	5 max	Nitrocellulose lacquers & sanding sealers
101	Glycerol	115 - 122	25 max	5 max	Nitrocellulose lacquers & sanding sealers
103	Glycerol	122 - 132	25 max	5 max	Nitrocellulose lacquers & alkyd paints
107	Glycerol	140 - 150	35 max	5 max	Nitrocellulose lacquers & sanding sealers
107 H	Glycerol	145 - 155	35 max	5 max	Nitrocellulose lacquers & sanding sealers



Fumaric Rosins

Procol	Composition	Softening Point Ring & Ball (°C)	Acid Value	Colour	Uses
110-3	Penta	140 - 150	125 - 140	7 max	Spirit varnishes & flexographic, water based & packaging inks
115 H	Penta	145 - 165	130 - 150	7 max	Spirit varnishes & flexographic & water based inks
115 H-S	Penta	145 - 165	130 - 150	7 max	Spirit varnishes & flexographic & water based inks/ citrus coatings
116	Penta	158 - 170	200 - 235	8 max	Wax emulsion for floor polishes & Flexo inks
116-S	Penta	158 - 170	200 - 235	8 max	Wax emulsion for floor polishes & Flexo inks
119 TL	Penta	155 - 165	205 - 225	8 max	Inks & Floor polishes
119 TL-S	Penta	155 - 165	205 - 225	8 max	Inks & Floor polishes
128 (222)	Penta	155 - 170	190 - 210	8 max	Shoe Polishes
305 F	Penta	140 - 160	310 max	8 max	Printing inks

Modified Rosins

Procol	Composition	Softening Point Ring & Ball (°C)	Acid Value	Colour	Uses
ST	Non crystallisable modified rosin	90 - 100	170 - 180	9 max	Antifouling paints & adhesives
14 PZ	Polymerised Rosin	90 - 100	130 - 160	10 max	Adhesives & inks

Rosin - Phenolic Resins

Procol	Composition	Softening Point Ring & Ball (°C)	Viscosity	Cloud Point (°C)	Acid Value	Colour	Uses
12 F	Phenol modified rosin	115 - 125	—	—	20 max	9 max	Oil varnishes
130 PR	Rosin - Phenolic	125 - 135 (capilar method)	—	—	25 max	10 max	High viscosity drying varnishes
150 PR	Rosin - Phenolic	140 - 155	—	—	30 max	8 max	Enamels, varnishes & printing inks
136	Rosin - Phenolic	160 - 175	Z3 - Z4 (35% in ARLO, 23°C)	115 - 130 (10% in Haltermann 6/9 AF)	30 max	12 max	Printing inks, cold & heat set
Megaprint GR 1520	Rosin - Phenolic	170 - 186	20 - 30 sec (18,5% in Tol. GS CUP 3, 20°C)	95 - 115 (10% in Haltermann 6/9 AF)	30 max	14 max	Printing inks, cold & heat set
Megaprint RF 1141	Rosin - Phenolic	160 - 175	Z4 - Z5 (35% in ARLO, 23°C)	115 - 130 (10% in Haltermann 6/9 AF)	30 max	12 max	Printing inks, cold & heat set
Megaprint GR 1511	Rosin - Phenolic	160 - 185	25 - 35 sec (18,5% in Tol. GS CUP 3, 20°C)		35 max	12 max	Rotogravure inks and printing inks

Rosin Dispersions

Megatac	Solid Content (%)	pH	Viscosity mPas	Particle size (nm)	Uses
Megatac MP 81	51 - 53	6,7 - 7,3	300 - 900	≤ 250	Adhesives
Megatac MP 82	51 - 53	6,7 - 7,3	300 - 900	≤ 250	APEO FREE adhesives
Megatac RA 55	54 - 56	7,0 - 8,0	400 - 1.000	≤ 250	Adhesives
Megatac RA 52	52 - 54	7,0 - 8,0	400 - 1.000	≤ 250	Adhesives
Megatac HA 55	54 - 56	6,7 - 7,5	500 - 1.200	≤ 250	High compatibility adhesives

Long Oil Alkyd Resins

Megalkyd	Oil or FA Length (%)	Solvent	Solid Content (%)	Viscosity	Colour	Acid Value (on solids)	Uses
57ST - 80 W	57	White Spirit	80 ± 1	Z1 - Z3 (Gardner, 23°C)	7 max	11 max	High solids paints for interior & exterior use
60 - 60 TTW	60	White Spirit	60 ± 1	Z1 - Z3 (Gardner, 23°C)	6 max	12 max	Decorative enamels of high yellowing resistance
60 - 70 TTA	60	A-100	70 ± 1	Z1 - Z3 (Gardner, 23°C)	6 max	15 max	Decorative enamels of high yellowing resistance
60 - 70 TWP	60	White Spirit	70 ± 1	Z (Gardner, 23°C)	5 max	12 max	Decorative enamels of high yellowing resistance
65 - 60 SW (*)	65	White Spirit	60 ± 1	80 - 150 sec (DC#4, 23°C, 50% IN W.S) (Y - Z3)	5 max	10 max	Air drying decorative paints and industrial enamels
65 - 60 SWLV (*)	65	White Spirit	60 ± 1	60 - 80 sec (DC#4, 23°C, 50% IN W.S) (Y - Z1)	5 max	10 max	Air drying decorative paints and industrial enamels
65 - 60 SWHV (*)	65	White Spirit	60 ± 1	150 - 250 sec (DC#4, 23°C, 50% IN W.S)	5 max	10 max	Air drying decorative paints and industrial enamels
65 - 70 SW (*)	65	White Spirit	70 ± 1	80 - 150 sec (DC#4, 23°C, 50% IN W.S) (Z6 - Z8)	5 max	10 max	Air drying for indoor & outdoor decorative paints, industrial enamels
65 - 70 SWLV (*)	65	White Spirit	70 ± 1	60 - 80 sec (DC#4, 23°C, 50% IN W.S) Z3 - Z6 (Gardner, 23°C)	5 max	10 max	Air drying for indoor & outdoor decorative paints, industrial enamels
65 - 70 SWHV (*)	65	White Spirit	70 ± 1	150 - 250 sec (DC#4, 23°C, 50% IN W.S) Z8 - Z10 (Gardner, 23°C)	5 max	10 max	Air drying for indoor & outdoor decorative paints, industrial enamels
68 - 75 SNW (*)	68	White Spirit	75 ± 1	Z - Z2 (Gardner, 23°C)	5 max	12 max	Air drying decorative paints & industrial enamels
68 - 75 SNP	68	White Spirit	75 ± 1	S - V (Gardner, 23°C)	5 max	12 max	Air drying decorative paints & industrial enamels
71 - 80 TD	71	D40	80 ± 1	Z - Z2 (Gardner, 23°C)	6 max	12 max	Air drying decorative paints & industrial enamels
MM - 670W (*)	66	White Spirit	70 ± 1	Z4 - Z6 (Gardner, 23°C)	5 max	10 max	Air decorative, outdoor and indoor paints, industrial enamels

* This product is also available in solvent D40

Medium Oil Alkyd Resins

Megalkyd	Oil or FA Length (%)	Solvent	Solid Content (%)	Viscosity	Colour	Acid Value (on solids)	Uses
48 - 55 TTW	48	White Spirit - Xylene	55 ± 1	Z3 - Z5 (Gardner, 23°C)	5 max	15 max	High quality industrial enamels & car repair finishes
48 - 55 TTD	48	D40 - Xylene	55 ± 1	Z3 - Z5 (Gardner, 23°C)	5 max	15 max	High quality industrial enamels & car repair finishes
48 - 65 TTA	50	A -100	65 ± 1	Z3 - Z5 (Gardner, 23°C)	5 max	15 max	Air drying decorative paints & industrial enamels
48 - 70 TWXP	50	White Spirit - Xylene	70 ± 1	Y - Z (Gardner, 23°C)	5 max	15 max	Air drying decorative paints & industrial enamels
48 ST - 75W	48	White Spirit	75 ± 1	Z2 - Z4 (Gardner, 23°C)	7 max	12 max	Air drying decorative paints & industrial enamels
48 ST - 75D	48	D40	75 ± 1	Z2 - Z4 (Gardner, 23°C)	7 max	12 max	Air drying decorative paints & industrial enamels
48 ST - 75WX	48	White Spirit - Xylene	75 ± 1	Z2 - Z4 (Gardner, 23°C)	7 max	12 max	Air drying decorative paints & industrial enamels
50 - 60 SBX	50	Xylene	60 ± 1	Z1 - Z3 (Gardner, 23°C)	6 max	8 max	Paints & industrial applications
50 - 70 SBT	50	Toluene	70 ± 1	60 - 100 sec (DC#4, 23°C, 60% In Tol)	5 max	12 max	Road marking paints
52 - 60 STW	52	White Spirit	60 ± 1	Z4 - Z6 (Gardner, 23°C)	6 max	12 max	Paints & industrial applications
SP - 455D	49	D40 - Xylene	55 ± 1	Z3-Z5 (Gardner, 23°C)	5 max	15 max	Air drying primers and industrial finishes & car repair finishes
SP - 455W	49	White Spirit - Xylene	55 ± 1	Z3-Z5 (Gardner, 23°C)	5 max	15 max	Air drying primers and industrial finishes & car repair finishes
MM - 455D	47	D40 - Xylene	55 ± 1	Z4-Z6 (Gardner, 23°C)	5 max	15 max	Air drying primers and industrial finishes & car repair finishes
MM - 455W	47	White Spirit - Xylene	55 ± 1	Z3-Z5 (Gardner, 23°C)	5 max	15 max	Air drying primers and industrial finishes & car repair finishes

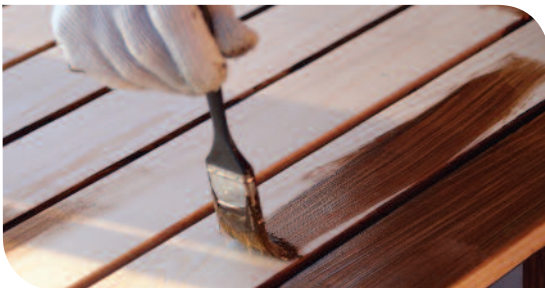


Short Oil Alkyd Resins

Megalkyd	Oil or FA Length (%)	Solvent	Solid Content (%)	Viscosity	Colour	Acid Value (on solids)	Uses
STY 30-60X	30	Xylene	60 ± 1	X - Y (Gardner, 23°C)	8 max	12 max	Hammer finishes & very fast drying Paints
230-60TX	30	Xylene	60 ± 1	Z3 - Z5 / 200 - 250 sec (DC#4, 23°C, 50% in xylene)	12 max	16 max	top quality fast drying primers
32-60 SXX	32	Xylene	60 ± 1	200 - 300 sec (DC#4, 23°C, 50% in xylene)	7 max	16 max	Fast drying corrosion resistance primers
35-60 TTX	35	Xylene	60 ± 1	75 - 100 sec (DC#4, 23°C, 50% in xylene) Z1 - Z3	6 max	14 max	Air drying & stoving lacquers
40-60 TCX	40	Xylene	60 ± 1	W - Z (Gardner, 23°C)	6 max	14 max	Stoving enamels for steel furniture & drums for nitrocellulose finishes
SP-360	35	Xylene	60 ± 1	Z3 - Z5	8 max	11 max	Mainly used in one component anticorrosive primers and one component industrial paints/Compatibility with nitrocellulose/ very fast drying
32-60SSA	32	A-100	60 ± 1	Z3 - Z5 / 200 - 300 sec (DC#4, 23°C, 50% in A-100)	7 max	16 max	Fast drying corrosion resistance primers
STY 30-70SSA	30	A-100	70 ± 1	Z1 - Z3 / 35 - 45 sec (DC#4, 23°C, 50% in A - 100)	8 max	12 max	Hammer finishes & very fast drying Paints

Solvent Free Alkyd Resins

Megalkyd	Oil or FA Length (%)	Solvent	Solid Content (%)	Viscosity	Colour	Acid Value (on solids)	Uses
IP80 - S100	80	Free	100	Z3 - Z4 (Gardner, 23°C)	6 max	12 max	Offset & letter press inks
ARTE70 - 100	70	Free	100	Z2 - Z4 (Gardner, 23°C)	6 max	8 max	Offset & letter press inks



Alkyd Resins for PU Systems

Megapol	Oil or FA Length (%)	Solvent	Solid Content (%)	Viscosity	Colour	Acid Value (on solids)	OH Value (on solids)	Uses
220 - 60	36	Xylene	60 ± 1	Z2 - Z4 (Gardner, 23°C)	6 max	15max	4%	Two component polyurethane primers & matt and gloss finishes
240 - 55	40	Xylene	55 ± 1	Y - Z1 (Gardner, 23°C)	5 max	15max	4%	Two component polyurethane primers & topcoats
240 - 60	40	Xylene	60 ± 1	Z2 - Z4 (Gardner, 23°C)	5 max	15max	4%	Two pack polyurethane primers
240 - 70BA	40	Butyl Acetate	70 ± 1	30 - 50 sec (DC#4, 23°C, 60% In BA)	6 max	15max	4%	Two component polyurethane primers & topcoats
252 - 70	25	Xylene	70 ± 1	Z1 - Z3 (Gardner, 23°C)	5 max	15max	3%	High gloss clear & colored PU coatings
252 - 75	25	Xylene	75 ± 1	Z1 - Z3 (Gardner, 23°C)	5 max	16max	3%	High gloss clear & colored PU coatings
225 - 60	36	Xylene	60 ± 1	Z2 - Z5 (Gardner, 23°C)	6 max (Typical 3 Max)	15max	4%	Two component polyurethane primers & matt and gloss finishes



PU Resins

Megapur	Solvent	Solid Content (%)	Viscosity (Brookfield, mPa.s)	Uses
RF 45	Ethyl Acetate	45 ± 1	1.500 - 3.000	Gravure & flexo printing inks
RF 75	Ethyl Acetate	75 ± 1	1.000 - 1.700	Gravure & flexo printing inks

Acrylic Resins

Megacryl	Solvent	Solid Content (%)	Viscosity (Gardner, 23°C)	Colour	Acid Value (on solids)	OH Value (on solids)	Uses
BMTA 60 - 5	Toluene	60 ± 1	Z2 - Z4	1 max	15 max		Traffic paints varnishes
ESW 60 - 20	White Spirit	60 ± 1	Z1 - Z3	1 max	6 max		Low viscosity primers
ESD 60 - 5	D40	60 ± 1	Z1 - Z4	1 max	8 max		Low viscosity primers
ESX 70 - 60	Xylene	60 ± 1	Y - Z	1 max	14 max		Stone penetrating varnishes
OH-X 60	Xylene	60 ± 1	4.000 - 6.000 cP 23°C	1 max	2 - 7	2,0 - 3,0%	two-component polyurethane coatings with excellent gloss retention, light fastness and chalking resistance.

Paper Size Chemicals

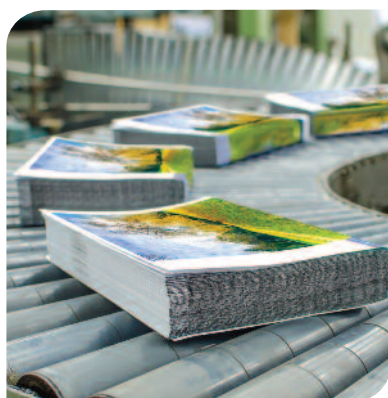
Product	Solid Content (%)	pH	Viscosity	Shelf Life	Free Maleic	Free Olefin	Uses
P.S. - 38	36 - 38	9 - 10	-	-	-	-	Paper size 2,5% PS38 with 3,5% aluminum sulfate
P.S. - 50	49 - 51	10 - 11,5	-	-	-	-	Paper size 2,5% PS50 with 3,5% Aluminum Sulfate and concrete
Furtin 3 N/S	87 - 93	12 - 12,5 (5% in water)	-	-	-	-	Paper size & mortars
F - 84	12 - 13	3 - 6	14 - 16sec (Din Cup#4, 25°C)	6 months at 20°C	-	-	Wet strength agent
F - 84 LX	12 - 13	3 - 5	15 - 17 sec (Din Cup#4, 25°C)	6 months at 20°C	-	-	Wet strength agent
F - 84 (15%)	14 - 16	4 - 6	16 - 20 sec (Din Cup#4, 25°C)	6 months at 20°C	-	-	Wet strength agent
Fadamide	19 - 21	2,5 - 3	18 sec approx (Din Cup#4, 25°C)	4 months at 20°C	-	-	Wet strength agent
Megasize C16/18 ASA	-	-	-	-	0,1% max	3% max	Manufacturing a variety of paper qualities by neutral process
Megasize FR40A	39 - 41	6,0 - 7,5	100cP (Brookfield 3/60rpm)	-	-	-	Acid siting of paper & board

Hot Melt Adhesives

Megastick	Softening Point Ring & Ball (°C)	Viscosity (mPa.s,160°C) ± 10%	Uses
111	70 - 75	3.700	Bookbinding
112	70 - 75	4.000	Bookbinding
180	65 - 75	2.500	Bookbinding
331	105 - 115	1.400	Paper, cartons & packaging
353	105 - 115	1.600	Paper, cartons & packaging
832	90 - 95	250.000	Laminations

Unsaturated Polyester Resins

Product	Reactivity	Type	Viscosity (cP)	Uses
UPD 300	Fast	Accelerated	350 - 450	Coarse and fine knifing fillers for metal, wood & mineral substrates, car body fillers



OUR **Vision**

Our Vision, is to be a recognized performance leader of the chemical industry. Being a performance leader means we will achieve operational excellence, industry-leading customer satisfaction and superior financial performance.



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