



REAKSİYON KİMYA

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Reaksiyon Kimya, which has been operating as a producer of raw materials used in the paints and construction sectors since its foundation in 2003, carries out its production in its strategically located factory in Kocaeli Dilovası Organized Industrial Zone. Prioritising customer satisfaction, a fully fledged R&D and Quality Control department assists in the production and trade operations. Reaksiyon Kimya persists in following closely the latest developments in the industry, as well as the latest demands in the market. Its strong financial and administrative positions make Reaksiyon Kimya one of the leading companies in the industry. Reaksiyon Kimya continues to strengthen its position in the market with its expanding portfolio of products in the paints and coating, construction chemicals, gypsum and concrete sectors. It has accomplished important breakthroughs in foreign trade with the establishment of foreign trade offices in South Korea and Algeria and has gained recognition in international markets by striking trade agreements and international partnerships. Epoxy resins, epoxy hardeners, polycarboxylate, defoamers, wax emulsions, water repellents, acrylic resin & emulsions and pigment pastes are the main product groups in its portfolio.

Under the roof of Reaksiyon Academy, the company aims to support the education and professional development of its employees, to be able to provide better service to the sector with a more qualified team and to raise awareness in areas such as environment, education and social equality by carrying out social projects. Our company has got a TSE ISO 9001 Quality System Certificate and is a member of IMMIB. Since 2021 the company has affirmed its commitment to improve its Responsible Care performance.

Our Mission

To be a leader in the supply of raw materials and production of innovative products in order to fulfil the needs and the expectations of the chemical industry.

Our Vision

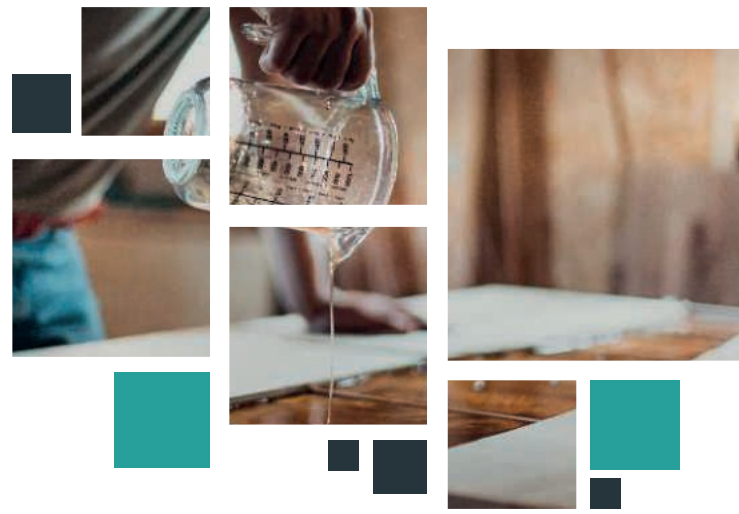
In our 25th year we aim to expand our trading network in four continents and to increase the number of our innovative products by 50%.



Our Values



Epoxy Hardener



The ability of epoxy resin systems to provide strong mechanical properties depends on linear epoxy resins to form three-dimensional cross-linked thermoset structures. This process is made possible by the curing reaction using materials called curators or hardeners.

Specifications Products	Product Base	Color (Gardner)	Viscosity (mPa.s 25°C)	A.H.E.W (g/eq)	Gelling Time Min. (100g/25°C)	Amine Value (mgKOH/g)	Amount of Usage	Application				
								Flooring		Composite	Casting	Adhesive
								Primer	Top Coat			
RECURE 302	Polyamidoamine	Max.14	100-300	100	36-43	250-320	50-54	✓				
RECURE 308	Modified Cycloaliphatic Polyamine	Max.12	100-400	95	45-55	300-350	47-52	✓				
RECURE 351	Cycloaliphatic Modified Polyamine	Max.6	250-500	100	25-29	240-280	50-54	✓				
RECURE 353	Modified Polyamine	Max.3	300-600	95	27-35	250-300	47-52	✓				
RECURE 356	Modified Polyamine	Max.6	200-1.000	100	23-33	280-330	50-54	✓				
RECURE 502	Cycloaliphatic Amine	Max.1	200-500	93	60-80	270-330	47-50		✓			
RECURE 503	Cycloaliphatic Amine	Max.1	200-500	115	50-70	230-290	58-63		✓		✓	
RECURE 507	Cycloaliphatic Amine	Max.3	200-500	115	45-55	240-290	58-63		✓			
RECURE 515	Cycloaliphatic Amine	Max.3	250-500	100	30-40	280-330	50-54		✓			
RECURE 518	Cycloaliphatic Amine	Max.2	300-1.000	115	50-70	550-600	58-63		✓			
RECURE 532	Modified Polyamine	Max.3	300-600	115	46-50	230-280	58-63		✓			
RECURE 537	Modified Cycloaliphatic Amine	Max.2	40-100	70	40-60	250-300	35-42			✓		
RECURE 545	Cycloaliphatic Amine	Max.2	300-600	100	40-60	270-320	50-54		✓			
RECURE 560	Cycloaliphatic Amine	Max.2	250-500	115	40-50	250-320	58-63		✓			
RECURE 585	Modified Polyamine	Max.3	250-500	95	40-50	290-340	47-52		✓			
RECURE 600	Modified Cycloaliphatic Amine	Max.2	20-50	45-63	210-230	480-510	25-33			✓		
RECURE 601	Modified Polyamidoamine	Max.14	100-300	78	60-80	330-380	39-42	✓				
RECURE 950	Polyamide	Max.14	40.000-70.000	160-190	130-150	170-240	26-30	✓	✓			✓
RECURE 950X70	Polyamide	Max.14	Max. 7.000	315	240-260	350-400	48-52	✓	✓			✓
RECURE 940	Polyamide	Max.12	3.000-4.000	95-105	40-60	100-150	50-55	✓	✓			✓

VISCOSITY

Low  High

R.600 R.537 R.302 R.353 R.351 R.356 R.532 R.940
R.308 R.502 R.503 R.950
R.585 R.507 R.515 R.518 R.545
R.601 R.560

COLOR

Transparent  Yellow

R.502 R.518 R.537 R.353 R.507 R.351 R.308 R.302
R.503 R.545 R.560 R.515 R.532 R.356 R.940 R.601
R.600 R.585 R.950

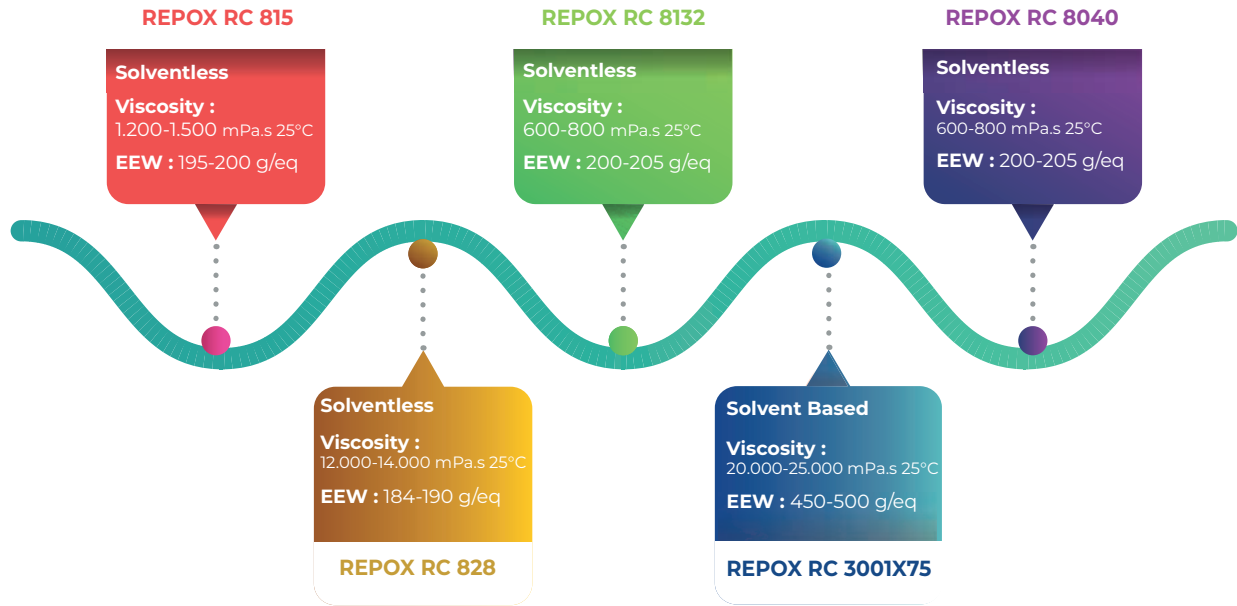
AHEW

Low  High

R.600 R.537 R.601 R.502 R.308 R.302 R.503 R.507
R.353 R.356 R.518 R.532
R.585 R.351 R.560

Epoxy Resin

Epoxy resins are the general name of prepolymer and polymer materials containing epoxide groups. The most common epoxy resins are systems produced from a two-step reaction between epichlorohydrin (ECH) and bisphenol-A (BPA). Different formulations have also been developed to produce special resins.



Epoxy Accelerator

Epoxy accelerator is designed for epoxy coatings, it accelerates the curing reaction, reducing gelling time and drying time.

Viscosity : 900-1.100 mPa.s 25°C
AHEW : 150 g/eq
pH : 10-12

RECURE 850

RECURE 850 is a superior additive to accelerate the epoxy systems. It is compatible with most of the amines.



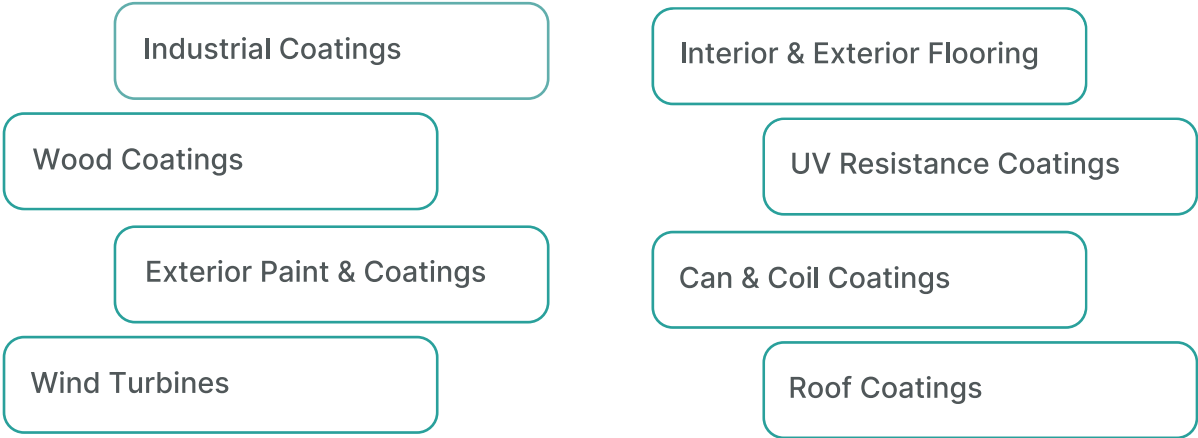


Polyaspartic Resin

NEW GENERATION
 Polyaspartic polyurea is a new generation aliphatic polyurea for coating system which allows two-component, UV resistant and colorfastness to be desired.

Specifications Products	Curing Speed	Color (Hazen)	Viscosity (Brookfield 25° C)	Equivalent Weight (g/mol)	Water Content (%)
Aspartic R122	Fastest	Max. 250	≤100	Approx. 234	<0,15
Aspartic R142	Fast	Max. 250	700-1800	Approx. 276	<0,15
Aspartic R152	Slow	Max. 250	700-2000	Approx. 290	<0,15
Aspartic R285	Moderate	Max. 250	60-140	Approx. 295	-

Application Areas





Thermoplastic 1K Acrylic Resin

Thermoplastic acrylic resins designed for high-performance coating and marking systems. They provide excellent adhesion, fast drying properties, and durable performance on surfaces such as asphalt and concrete.

Specifications Products	Appearance	Solid Content %	Viscosity (mPa.s 25°C)	Solvent	Tg (°C)
REACRYL TP 125X60	Transparent	58-62	6.000-15.000	Xylene	55±2
REACRYL TP 125T60	Transparent	58-62	6.000-15.000	Toluene	55±2

Acrylic Emulsion

Acrylic emulsions are a type of polymer that act as a binding agent in several industries. These products are known for their excellent adhesion, durability, weather resistance, and versatility in various applications. They are widely used in industries such as paint, coating, ink and construction for their ability to provide strong bonding properties and enhance the performance of end products.

Specifications Products	Appearance	Chemical Composition	Solid Content (%)	Viscosity (mPa.s 25°C)	pH	Tg (°C)
REACRYL R-50	White Emulsion	S/AC	48-52	5.000-12.000	7,8-8,0	20±2
REACRYL R-500	White Emulsion	S/AC	48-52	2.000-8.000	7,8-8,0	0±2
REACRYL R-550	White Emulsion	S/AC	54-58	300-1.000	7,8-9,0	-8±2
REACRYL T-22	Translucent Emulsion	S/AC	38-40	3.000-5.000	7,5-8,5	58±2
REACRYL T-90	Translucent Emulsion	S/AC	43-45	700-1.000	8,0-10,0	103±2

PAINT

• REACRYL R-50 • REACRYL R-500

• Water based interior and exterior paints

CEMENTITIOUS MORTAR

• REACRYL R-550

• Two components mortars • Cement
• Flat roofing insulation • Ceramic adhesives

INK

• REACRYL T-22 • REACRYL T-90

• Water Based Flexo Inks • Lacquers

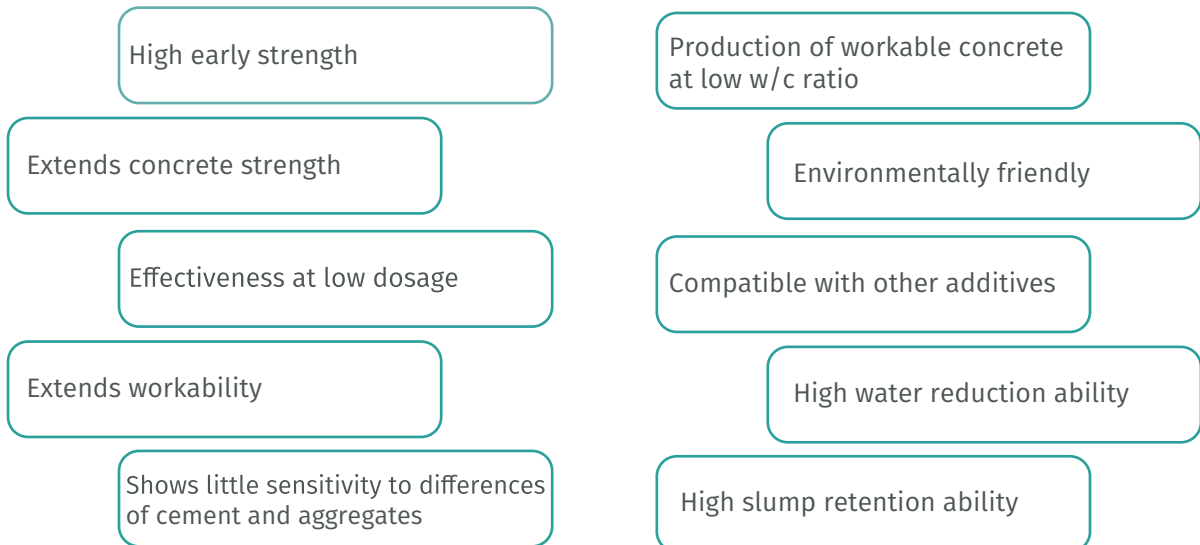


Liquid Polycarboxylate

It is polycarboxylate based superplasticizer which is concrete admixture chemical developed for highly water reducing and slump retention.

							Application	
Specifications		Appearance	Solid Content (%)	pH	Density (g/cm³)	Viscosity (mPa.s 25°C)	High Range Water Reducer	Slump Retention
Products								
MAXFLOW	RCW 300NP	Light Yellowish	50	4-5	1,048-1,148	400-1.000	✓	
MAXFLOW	RCW 320	Light Yellowish	50	5-6	1,05-1,15	400-800	✓	
MAXFLOW	RCW 330	Light Yellowish	50	5-6	1,05-1,15	400-800	✓	
MAXFLOW	RCW 350	Light Yellowish	50	4-6	1,048-1,148	400-1.000		✓
MAXFLOW	RCW 355	Light Yellowish	50	4-6	1,05-1,15	400-1.000		✓
MAXFLOW	RCW 370NP	Light Yellowish	70	4-6	1,19±0,05	3.000-5.000	✓	

The benefits and advantages of our products;



Powder Polycarboxylate

It is a high performance super plasticizer developed for cement and gypsum based construction chemicals.

Product	Specifications				
	Appearance	Active Substance (%)	pH	Bulk Density (g/cm ³)	Alkali Content (%)
MAXFLOW RCW 500P	White Powder	Min. 95	7-9	0,4-0,6	Max. 2

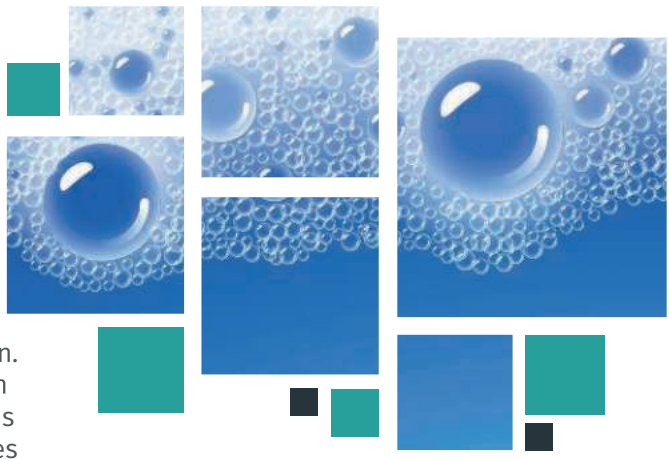
The benefits and advantages of our products;

Excellent flowability

Enables to work with low water cement ratio

Shows little sensitivity to differences of cement and aggregates

Compatible with other additives



Defoamer

The foam may occur during the production process or during application. It causes insufficient packaging with it's formation in the production process and surface defects with it's formation during application. It is possible to eliminate or prevent the formation of foam with the additives that we describe as defoamers.

Liquid Defoamer

• Mineral Oil Based Liquid Defoamer

Mineral oil based defoamers have a lower surface tension than water. In the film layer; it prevents the structure such as fishete or crater that will spoil the film surface. It is suitable for dense and resistand systems where other defoamers can not be active. It does not contain phenolic structure, silicone and volatile components. It provides a cost advantage to the consumer.

Specifications Products	Appearance	Active Substance (%)	Specific Gravity (g/cm³)	Solubility
AFROMER M5	White Emulsion	50	0,93-0,97	Insoluble in water
AFROMER M6	White Emulsion	50	0,89-0,99	Resoluble with water
AFROMER M10	Yellowish	100	0,88-0,93	Resoluble with water
AFROMER M15	Yellowish	100	0,96-0,98	Resoluble with water

• Silicone Based Liquid Defoamer

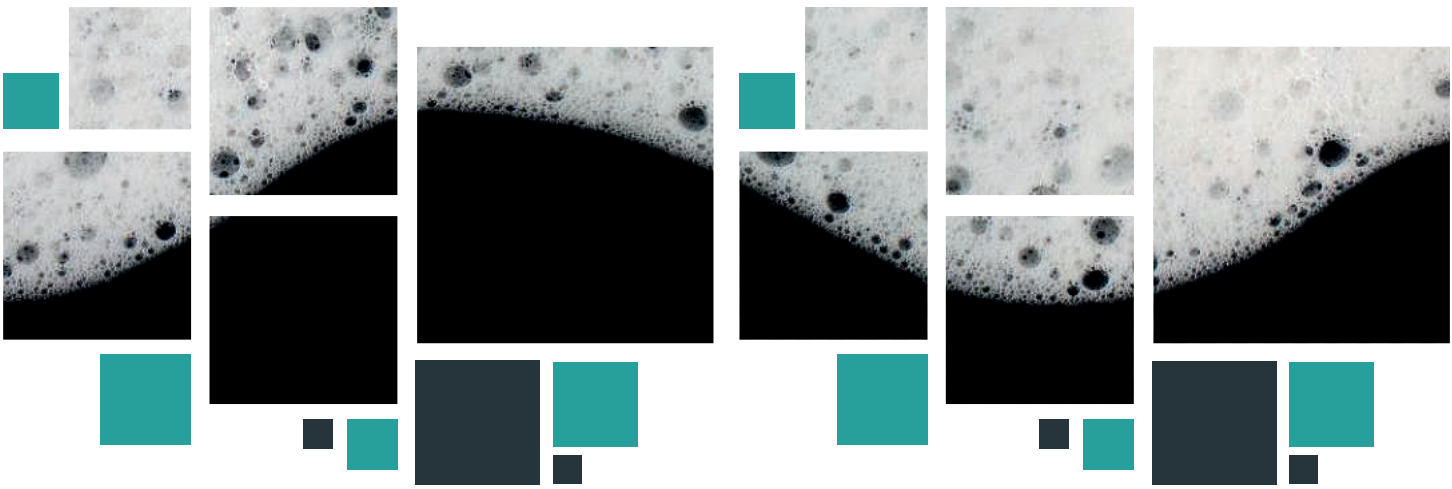
Silicone based defoamers used in water based systems which are emulsions of strong hydrophobic silicone oils, often polydimethylsiloxanes are used. It can be modified with silica and polyureas to improve the dispersibility and defoaming performance of silicone oil.

Specifications Products	Appearance	Active Substance (%)	Specific Gravity (g/cm³)	Solubility
AFROMER S10	White Emulsion	8-12	0,93-0,97	Partially with water
AFROMER S20	White Emulsion	18-22	0,93-0,97	Partially with water
AFROMER S30	White Emulsion	28-32	0,93-0,97	Partially with water
AFROMER EP 900	Opaque Liquid	100	0,93-1,03	Insoluble in water

• Polyether Based Liquid Defoamer

Polyether defoamer is nonionic surfactant with excellent stability and hight efficiency, shows anti foam properties for micribial foam, non-toxic, water soluble, and easily soluble in organic solvents.

Specifications Products	Appearance	Active Substance (%)	Specific Gravity (g/cm³)	Solubility
AFROMER M20	Yellowish	100	1,05-1,15	Completely with water



Powder Defoamer

- Polyether Based Powder Defoamer

Since it has fast dispersion feature in the environment in which it is used, it ensures the rapid disappearance of the foams formed.

Products	Specifications		
	Appearance	Active Substance (%)	Bulk Density (g/cm ³)
AFROMER P 1850	White Powder	50	0,5-0,7
AFROMER P 1860	White Powder	60	0,5-0,7

Defoamers are used in many different sectors.

Products	Usage Areas						
	Paint	Pigment Dispersion	Ink	Adhesive	Powder Type Construction Chemicals	Polymer	Epoxy Systems
AFROMER M5	✓		✓	✓			
AFROMER M6	✓		✓	✓			
AFROMER M10		✓					
AFROMER M15	✓						
AFROMER M20		✓	✓			✓	
AFROMER S10	✓			✓			
AFROMER S20							
AFROMER S30	✓			✓			
AFROMER P 1850					✓		
AFROMER P 1860					✓		
AFROMER EP 900							✓

Water Repellent



By adding hydrophobic properties to the applied surface, water repellents form a barrier between the surface with water, salt, chlorine and alkalis. Water repellents do this without forming layers on the surface, changing the surface appearance and discoloration.

• Powder Water Repellent

It is highly efficient hydrophobic additive which is used for cement based mortars such as plasters, joints and sealing mortars.

Product	Specifications			
	Appearance	Base	Density (g/cm ³)	Active Substance (%)
REACSIL 95P	White Powder	Silane	0,2-0,4	50

• Wax Emulsion

Products	Specifications					
	Appearance	Base	pH	Viscosity (mPa.s)	Density (g/cm ³)	Solid Content (%)
REMULSION WAX RP 10	White Emulsion	Paraffin Wax	10-12	100-400	0,95-0,97	39-41
REMULSION WAX RC 50	White Emulsion	Paraffin Wax	5,5-6,5	150-250	0,92-0,98	39-41
REACSIL WB-40-EX	Light Brown	Special Wax	11-12	100-200	0,92-1,02	38-40
REWAX 1018	Yellowish Liquid	Polyethylene Wax Emulsion	8,5-9,5	25-35	0,94-0,98	31-33
REWAX 1028	Yellowish Liquid	Polyethylene Wax Emulsion	8,5-9,0	50-100	0,94-0,98	34-36
REWAX 1053	Yellowish Liquid	Polyethylene Wax Emulsion	7,5-9,5	30-100	0,97-1,03	34-36
FRITION 40	Yellowish Liquid	Polyethylene Wax Emulsion	8,5-9,5	200-450	0,93-1,03	54-56

PAINT

- REMULSION WAX RP 10
- REWAX 1018
- REWAX 1028
- REWAX 1053

INK

- FRITION 40

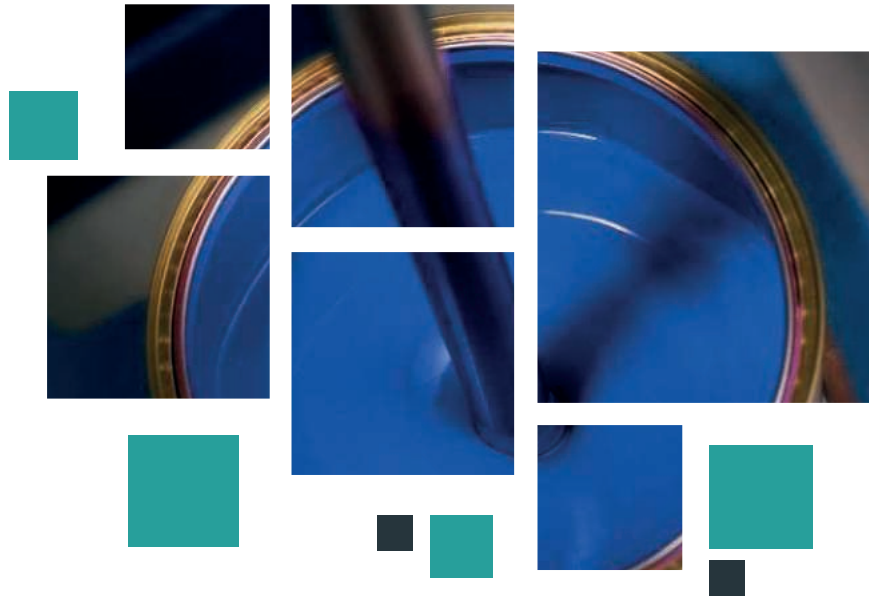
CONCRETE

- REMULSION WAX RC 50

GYPSUM BOARD

- REACSIL WB-40-EX

Dispersing & Wetting Agent



Dispersing and wetting agents provide homogeneous distribution of pigment and fillers. Dispersing agents prevent aggregation in paint and coating formulations with high filler and pigment content. Wetting agents reduce the surface and inner surface tension, ensure the wetting of solids.

• Dispersing Agents for Inorganic Pigments and Filler

Dispersing agents are polyacrylate based additive used for wetting and dispersing purposes in water-based paint and coating formulations with high fillers and pigment content.



• Dispersing and Wetting Agent for Organic Pigment

ADD DISPERS W180 is a copolymer wetting and dispersing additive with focus on pigment wetting. With carbon blacks, it provides high pigment loadings and long-term stability.

ADDWET 500 is improved for dispersion-based emulsion paints; it is a carboxylic acid ammonium salt with effective dispersion, high color yield and low foaming properties. It does not contain APEO.





Pigment Paste

• Water Based Pigment Paste

Water based pigment pastes are organic pigment dispersions which can be utilized in paint, leather, textile, ink, and other coating formulations.

Specifications				Light Fastness		Air Fastness		Applications	
				Full Shade	Tint	Full Shade 2	Tint 2	Interior	Exterior
Products	Color Index	Pigment Concentration (%)	pH						
Mixpaste Yellow 5GX	PY 74	50	6-7	6-7	6	3-4	2	✓	
Mixpaste Yellow H3C	PY 154	35	8-10	8	8	5	4-5	✓	✓
Mixpaste Black 825	PB 7	38,5	8-9	8	8	5	5	✓	✓
Mixpaste Pink PB	PR 122	25	7-8	7-8	7-8	4-5	4	✓	✓
Mixpaste Blue B2G	PB 15:3	50	9-10	8	7-8	5	5	✓	✓
Mixpaste Green GN 7	PG 7	55	9-10	8	7-8	5	5	✓	
Mixpaste Red 2B	PR 2	45	8-9	5	4	4	3	✓	
Mixpaste Red DPP	PR 254	42	8-9	8	7-8	5	4-5	✓	✓
Mixpaste Red FGR	PR 112	48	8-9	7	5-6	4	3	✓	

•Epoxy & Polyol Based Pigment Paste

Epoxy & polyol based pigment pastes are solvent free, pourable and can be mixed with each other to create additional colours. As they are dispersed in the epoxy resin mixture, they react with the system and do not change their curing properties.

Specifications			Light Fastness	
			Full Shade	Tint
Products	Color Index	Pigment Concentration (%)		
Mixpaste Pux Black	PB 7	18	7-8	7-8
Mixpaste Pux Blue	PB 15:3	18	7-8	7-8
Mixpaste Pux Green	PG 7	20	7-8	7-8
Mixpaste Pux Orange	PO 13	18	5-6	5-6
Mixpaste Pux Yellow	PY 13	18	5-6	5-6
Mixpaste Pux Red	PR 112	18	7-8	7-8



Powder Polymers

Specifications Products	Appearance	Moisture (%)	Ash Content TGA 1000°C	pH	Tg (°C)	ETICS: adhesives and base coat renders. Base coat renders and plasters. Finishing renders and plasters, skim coats Non structural repair mortars. REACRYL P 20	Base coat plasters. Finishing plasters, skim coats Standard tile adhesives. Standard tile grouts. Non structural repair mortar. REACRYL P 60
REACRYL P20	White Powder	Max.1	9-12	6,0-9,0	0		
REACRYL P60	White Powder	Max.1	9-12	6,3-8,3	14		

Cellulose Ethers

Specifications Products	Chemical Composition	Appearance	Moisture (%)	Ash Content TGA 1000°C	pH	Viscosity Brookfield 20°C %2 Solution (mPa.s)	Application							
							Tile Adhesive	Putty	Plaster Mortar	Gypsum-Based Products	Cement-Based Products	Block Laying Adhesive	Decoration Mortar	EIFS Mortar
REAXCELL 04M	HPMC-PURE	White Powder	Max. 6,0	Max. 5,0	5,0-9,0	300-560				✓	✓			
REAXCELL 15M	HPMC-PURE	White Powder	Max. 6,0	Max. 5,0	5,0-9,0	7.000-12.000	✓	✓					✓	
REAXCELL 40KX	HPMC-MODIFIED	White Powder	Max. 6,0	Max. 5,0	5,0-9,0	15.000-25.000	✓				✓	✓		
REAXCELL E50X	HEMC-MODIFIED	White Powder	Max. 6,0	Max. 5,0	5,0-9,0	20.000-30.000			✓		✓		✓	
REAXCELL 200EX	HPMC-MODIFIED	White Powder	Max. 6,0	Max. 5,0	5,0-9,0	70.000-80.000	✓		✓	✓	✓		✓	
REAXCELL 2160M	HPMC-MODIFIED	White Powder	Max. 6,0	Max. 5,0	5,0-9,0	55.000-65.000	✓							✓
REAXCELL 3087K	HPMC-MODIFIED	White Powder	Max. 6,0	Max. 5,0	5,0-9,0	12.000-22.000	✓				✓			✓
REAXCELL 4050G	HPMC-MODIFIED	White Powder	Max. 6,0	Max. 5,0	5,0-9,0	35.000-45.000				✓				
REAXCELL 5075G	HPMC-MODIFIED	White Powder	Max. 6,0	Max. 5,0	5,0-9,0	45.000-55.000		✓		✓				



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