



**REAKSİYON KİMYA**

# REAKSIYON KİMYA



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*

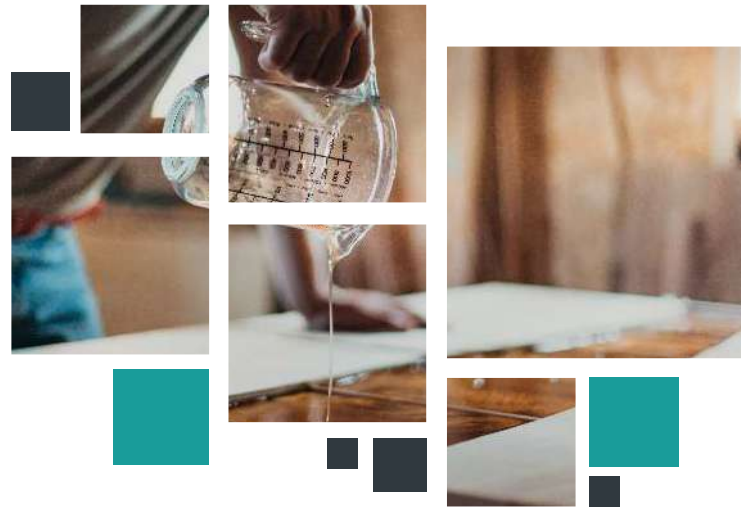
In our 25<sup>th</sup> year we aim to expand our trading network in four continents and to increase the number of our innovative products by 50%.



## Our Values



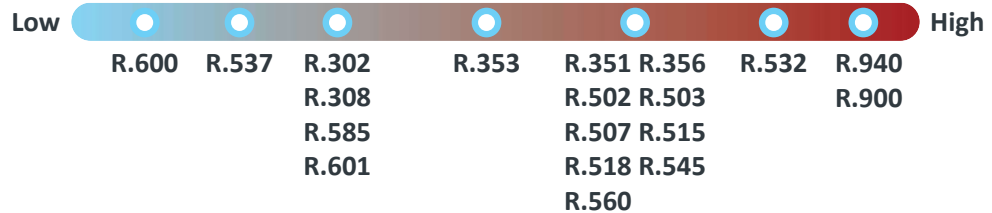
# Epoxy Hardeners



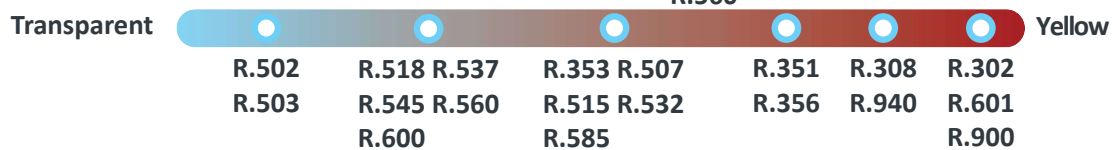
The ability of epoxy resin systems to provide strong mechanical properties depends on linear epoxy resins to form three-dimensional cross-linked thermoset structures. This process is made possible by the curing reaction using materials called curators or hardeners.

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	300-330	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	300-500	100	25-29	240-280	50-54	✓				
RECURE 353	Modified Polyamine	Max.3	200-500	95	27-35	250-300	47-52	✓				
RECURE 356	Modified Polyamine	Max.6	300-600	100	23-33	240-280	50-54	✓				
RECURE 502	Cycloaliphatic Amine	Max.1	300-500	93	60-80	250-300	47-50		✓			
RECURE 503	Cycloaliphatic Amine	Max.1	300-500	115	50-70	240-270	58-63		✓		✓	
RECURE 507	Cycloaliphatic Amine	Max.3	300-500	115	45-55	230-300	58-63		✓			
RECURE 515	Cycloaliphatic Amine	Max.3	300-500	100	30-40	270-320	50-54		✓			
RECURE 518	Cycloaliphatic Amine	Max.2	300-550	115	50-70	500-600	58-63		✓			
RECURE 532	Modified Polyamine	Max.3	350-650	115	46-50	230-260	58-63		✓			
RECURE 537	Modified Cycloaliphatic Amine	Max.2	0-100	68-70	40-60	310-350	35-42			✓		
RECURE 545	Cycloaliphatic Amine	Max.2	300-500	100	40-60	270-320	50-54		✓			
RECURE 560	Cycloaliphatic Amine	Max.2	300-500	115	40-50	270-320	58-63		✓			
RECURE 585	Modified Polyamine	Max.3	100-300	95	40-50	250-400	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	250-350	39-42	✓				
RECURE 900	Polyamide	Max.14	40.000-70.000	160-190	130-150	170-240	26-30	✓	✓			✓
RECURE 900X70	Polyamide	Max.14	500-1.000	235-265	240-260	135-165	38-42	✓	✓			✓
RECURE 940	Polyamide	Max.12	600-1.500	95-105	40-60	300-400	50-55	✓	✓			✓

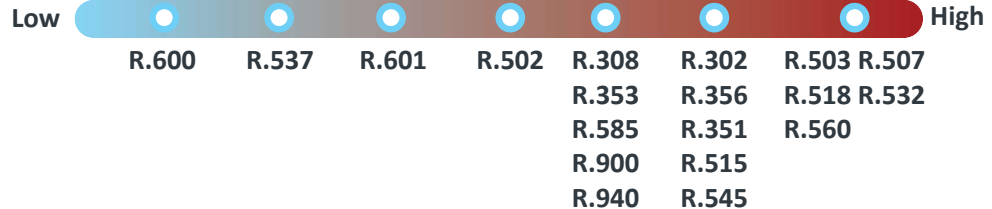
## VISCOSITY



## COLOR



## AHEW



# 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

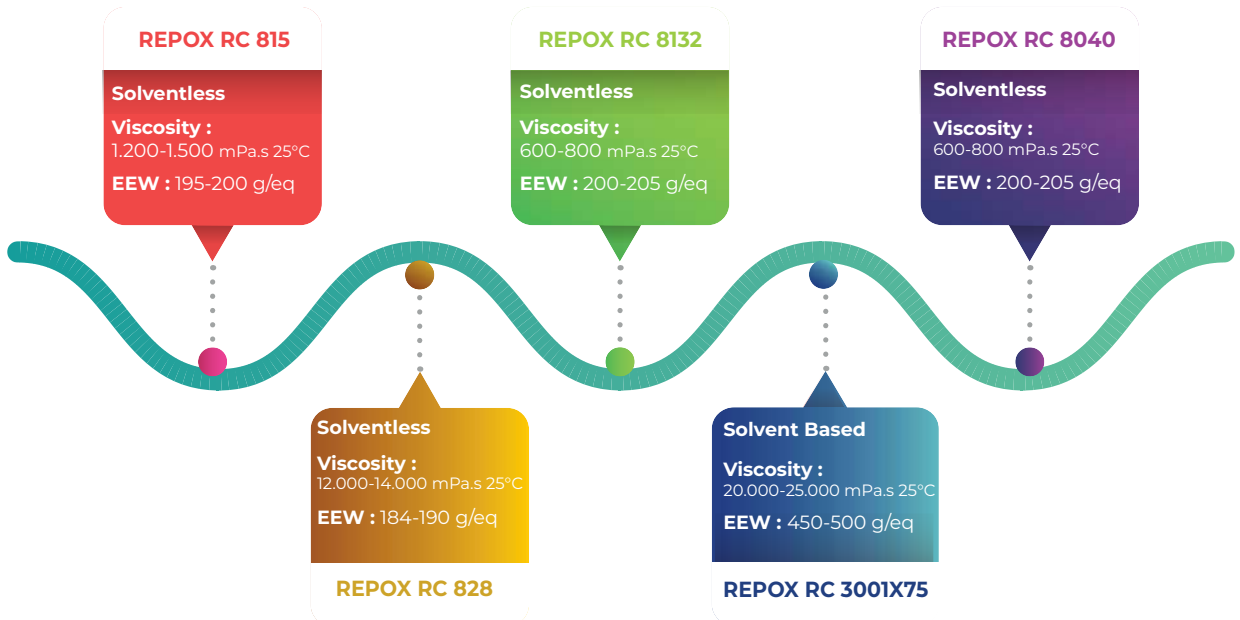
## RECURE 850

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



# Epoxy Resins

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.



# Acrylic Emulsions



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	45-51	5.000-12.000	7,8-8,0	20±2
REACRYL R-54	White Emulsion	P/AC	48-50	200-500	7,0-9,0	18±1
REACRYL R-55	White Emulsion	S/AC	49-51	100-500	7,5-9,5	19±1
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-54
- REACRYL R-55

- 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

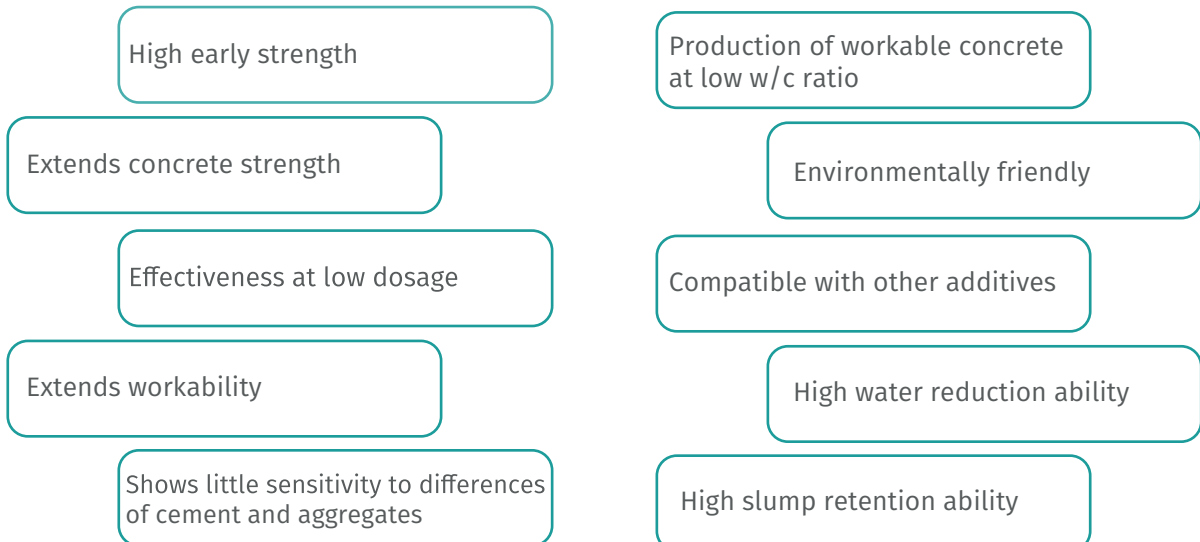
- Water Based Flexo Inks
  - Lacquers

# Liquid Polycarboxylate

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

Specifications							Application	
Products	Appearance	Solid Content (%)	pH	Density (g/cm³)	Viscosity (mPa.s 25°C)	High Range Water Reducer	Slump Retention	
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 <sup>3</sup> )	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

# Water Repellents



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 dis coloration.

## • 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 <sup>3</sup> )	Active Substance (%)
REACSIL 95P	White Powder	Silane	0,2-0,4	50

## • Wax Emulsions

Products	Specifications					
	Appearance	Base	pH	Viscosity (mPa.s)	Density (g/cm <sup>3</sup> )	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
FRICTION 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

- FRICTION 40

### CONCRETE

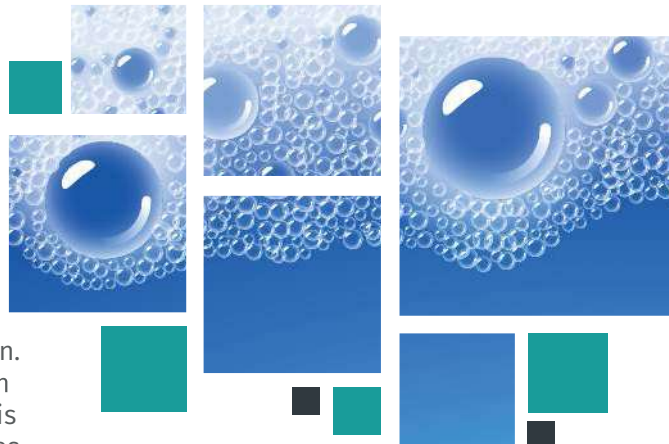
- REMULSION WAX RC 50

### GYPSUM BOARD

- REACSIL WB-40-EX

# Defoamers

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 Defoamers

### • Mineral Oil Based Liquid Defoamers

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 resistant 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/cm <sup>3</sup> )	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 Defoamers

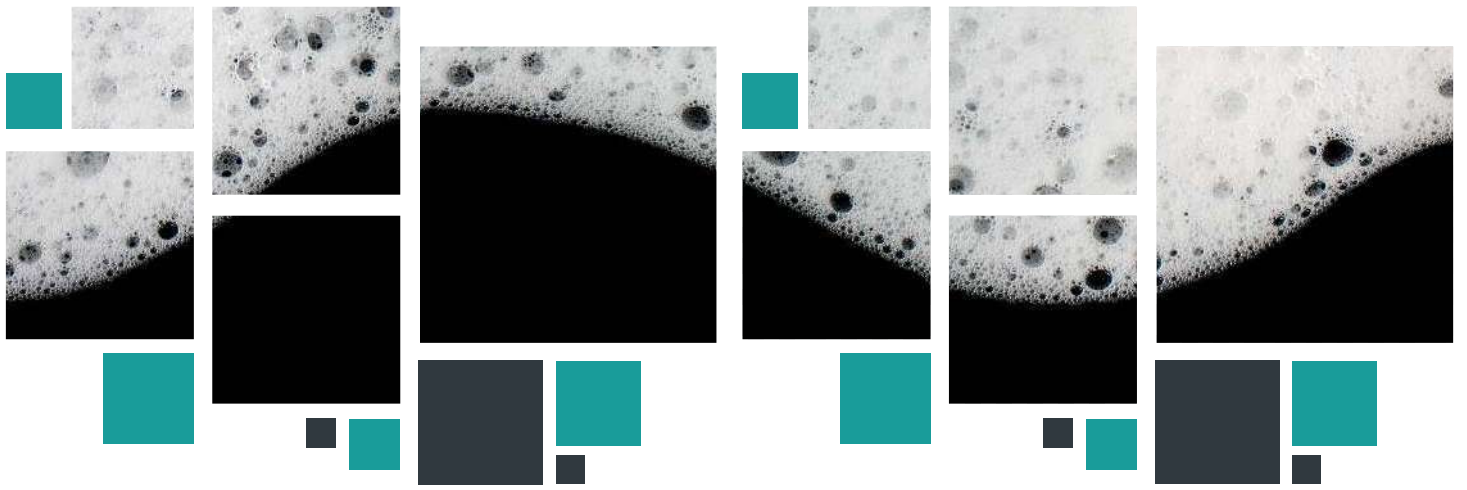
Silicone based defoamers used in water based systems which are emulsions of strong hydrophobic silicone oils, often polydimethylsiloxanes are used. It can be modified with silica and polyureas to improve the dispersibility and defoaming performance of silicone oil.

Specifications Products	Appearance	Active Substance (%)	Specific Gravity (g/cm <sup>3</sup> )	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

### • Polyether Based Liquid Defoamer

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

Specifications Products	Appearance	Active Substance (%)	Specific Gravity (g/cm <sup>3</sup> )	Solubility
AFROMER M20	Yellowish	100	1,05-1,15	Completely with water



## Powder Defoamers

### • 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 <sup>3</sup> )
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
AFROMER M5		✓		✓	✓		
AFROMER M6		✓		✓	✓		
AFROMER M10			✓				
AFROMER M15		✓					
AFROMER M20			✓	✓			✓
AFROMER S10		✓			✓		
AFROMER S20							
AFROMER S30		✓			✓		
AFROMER P 1850						✓	
AFROMER P 1860						✓	



# Pigment Pastes

## • Water Based Pigment Pastes

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

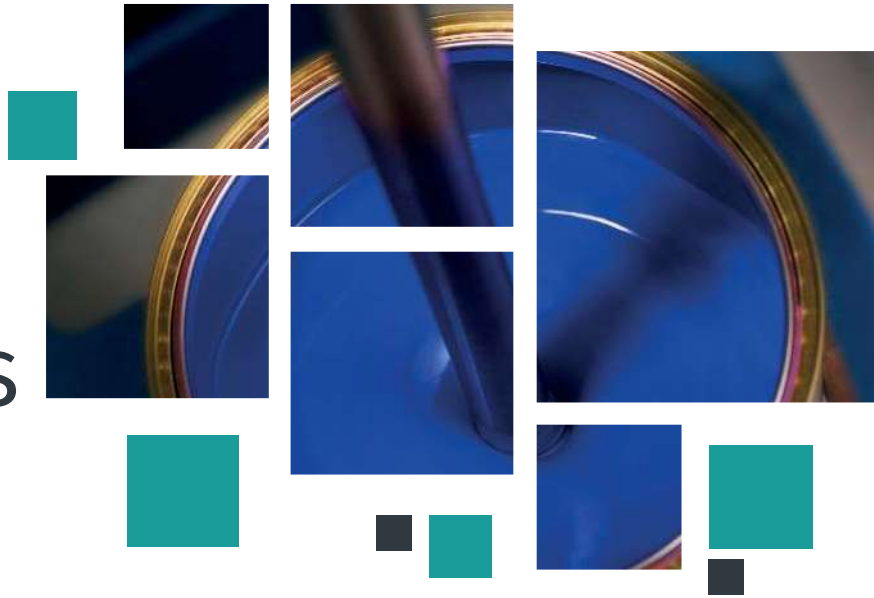
				Light Fastness		Air Fastness		Applications		
Products	Specifications	Color Index	Pigment Concentration (%)	pH	Full Shade	Tint	Full Shade 2	Tint 2	Interior	Exterior
	Mixpaste Yellow 5GX	PY 74	50	6-7	6-7	6	3-4	2	✓	
	Mixpaste Yellow H3C	PY 154	35	8-10	8	8	5	4-5	✓	✓
	Mixpaste Black 825	PB 7	38,5	8-9	8	8	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 Pastes

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.

			Light Fastness	
Specifications Products	Color Index	Pigment Concentration (%)	Full Shade	Tint
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

# Dispersing & Wetting Agents



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 Fillers

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 Pigments

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.





# Powder Polymers

Specifications Products	Appearance	Moisture (%)	Ash Content TGA 1000°C	pH	Tg (°C)
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

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.

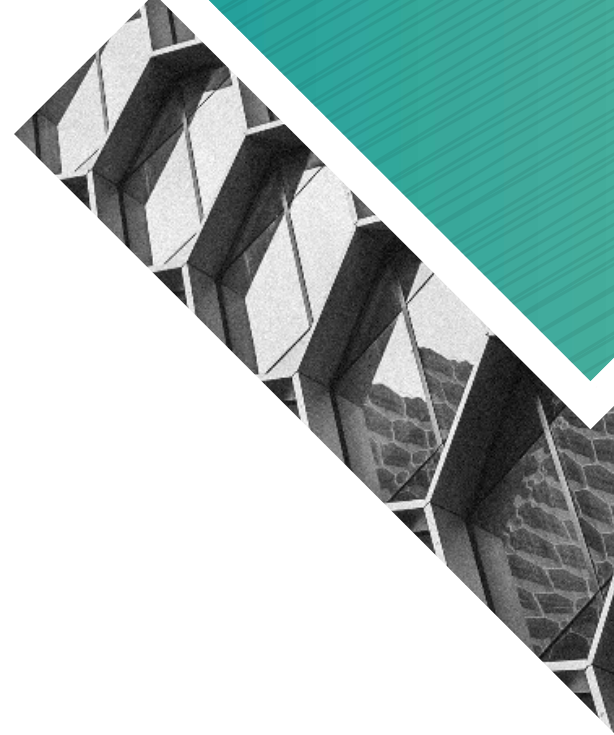
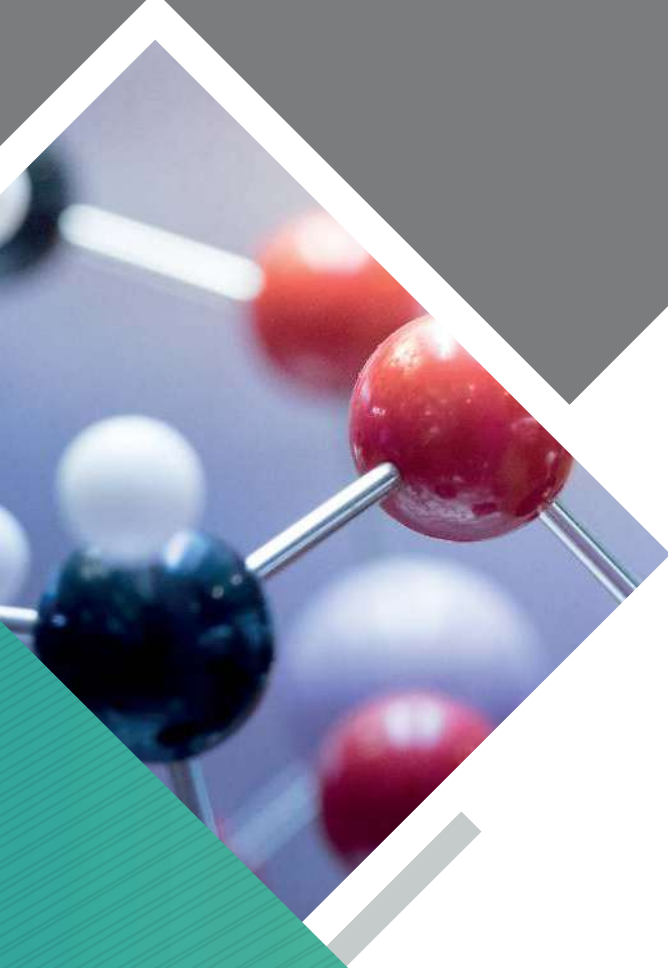
**REACRYL P 60**

# 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 Mortar	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		✓		✓				

Notes :

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