



Redispersible Powder Polymers

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# Construction Solutions



# Company Profile

Starting its journey in 1924 as a chemicals trader, today, with over 90 years of experience in the chemicals industry, we have been providing solutions to a variety of markets and applications utilizing different technologies. Our manufacturing and service locations enable us to serve our customers all around the world.

We have been employing the power of science and customer intimacy since our humble beginnings and we started our polymer emulsions production in 1965 with this notion. Besides our Istanbul polymer emulsions plant with 170,000 tpa production capacity, we invested in a new plant with an 80,000 tpa production capacity in Rotterdam in 2007. With our perpetual ambition to grow our business, we increased our production capacity over 30 times in the past 30 years to reach 250,000 tpa. Serving more than 2,000 customers in over 80 countries, Orgal® is the brand that customers know and trust when it comes to polymer emulsions.

Leveraging our expertise in liquid polymer emulsions, Organik Redispersible Powders, ORP®, was established in 2011 with a diverse range of products in powder form to address the needs of the construction chemicals industry. Our redispersible powder polymer plant with 45,000 metric tons of production capacity was built in Tuzla, Istanbul to fulfill this mission.

Our Tuzla plant investment also includes hot melt production with a capacity of 12,000 metric tons to serve the industrial adhesives market. Organik Kimya's customers enjoy valuable solutions for a variety of applications in 6 different business units:

- Coating Solutions
- Construction Solutions
- Textile & Leather Performance Solutions
- Pressure Sensitive Adhesives & Paper Solutions
- Industrial Adhesives Solutions
- Distribution & Industrial Solutions

With its focus on customer collaboration and service, dedication to innovation and technology while caring for the environment, Organik Kimya relentlessly works to add value to its customers.

What we have accomplished so far is only a glimpse of what we will accomplish in the future.

## Innovation promotes Sustainability

Contributing to the sustainability of our environment, our society and our economy is one of our most important responsibilities in today's rapidly changing world. We need to produce together, work hard for the future and realize the footprints we leave behind.

We believe that we can lead a better life together and aim to create a positive impact for all our stakeholders. Managing our environmental impacts, investing in projects that contribute to social sustainability, and developing future proof products and services continues to be high on our agenda.

Organik Kimya is taking the lead in achieving the UN's Sustainable Development Goals. We aim to become carbon neutral till 2050, continue our efforts in achieving environmental and social sustainability and investing in innovative solutions that contribute to circular economy. With all our efforts we contribute to SDGs 3,4,5,6,7,8,9,10,12,13 and 17.



For further information, please visit our sustainability report prepared in accordance with GRI Standards:  
[www.organikkimya.com/en/sustainability](http://www.organikkimya.com/en/sustainability)





# Redispersible Powders

## Application Areas

	Tile Adhesives	Flexible Tile Adhesives	Tile Grouts	ETICS / EIFS Adhesives	ETICS / EIFS Base Coats	Decorative Renders & Plasters	Flooring Self-Leveling Mortars	Repair Mortars	Gypsum Based Plasters & Joint Fillers	Cementitious Waterproofing Mortars
ORP® 5077 MP	★★★★	★★★★	★★					★★★★		
ORP® 5070 MP	★★★★	★★★★	★★					★★★★		
ORP® 6072 MP	★★★★	★★★★	★★					★★★★		
ORP® 5090 MP	★★★★	★★		★★	★★	★★★			★★★★	
ORP® 5092 MP	★★★★	★				★			★★★★	
ORP® 7085 HM	★★★★	★★		★★	★★	★★★			★★★	
ORP® 7099 RD	★★★★	★				★			★★★	
ORP® Hydroflex 64			★★★★	★★	★★	★★★		★★★		★★★★
ORP® 7365 HP			★★★★	★★★★	★★★★	★★★★				★★★★
ORP® Thermobond 74	★★★	★★★		★★★★	★★★★					★★
ORP® Thermobond 65	★★★	★★★	★★	★★★★	★★★★	★		★★		★★
ORP® Thermobond 45				★★★★	★★★★					
ORP® 7680 SL							★★★★			



# Tiling Systems

## Cementitious Tile Adhesives | Redispersible Powders

		Monomer Composition	Polymer Structure	Adhesion After Heat Aging	Adhesion After Water Immersion	Transverse Deformation	Features & Benefits
ORP®	5077 MP	VA / VV	Medium Hard	★★★★★	★★★★★	★★★★★	
ORP®	5070 MP	VA / VV	Medium Hard	★★★★★	★★★★	★★★★★	
ORP®	6072 MP	VA / VV / AC	Medium Hard	★★★★★	★★★★	★★★★	
ORP®	Thermobond 65	VA / VV / AC	Soft	★★★★	★★	★★★★★	
ORP®	5090 MP	VA / VV	Medium Hard	★★★★	★★	★★	
ORP®	5092 MP	VA / VV	Medium Hard	★★	★★	★	
ORP®	7085 HM	VA / AC	Medium Hard	★★★★	★★	★★	
ORP®	7099 RD	VA / AC	Hard	★★	★★	★	
Specifically designed powder polymers are able to provide high adhesion values by their hard and water resistant natures. They are also flexible due to their branched molecular structures.							

## Tile Grouts | Redispersible Powders

		Monomer Composition	Polymer Structure	Hydrophobicity	Abrasion Resistance	Flexural Strength	Features & Benefits
ORP®	Hydroflex 64	VA / VV / AC	Soft	★★★★★	★★★★★	★★★★★	
ORP®	7365 HP	VA / AC	Soft	★★★	★★★★★	★★★	
Hydrophobically modified powder polymers provide not only water repellency but also high water resistance for tile grouts.							



# Heat Insulation Systems



## ETICS / EIFS Adhesives | Redispersible Powders

		Monomer Composition	Polymer Structure	Adhesion on Insulation Boards	Adhesion After Water Immersion	Features & Benefits
ORP®	Thermobond 74	VA / AC	Soft	★★★★★	★★★★	
ORP®	Thermobond 65	VA / W / AC	Soft	★★★★	★★★★	
ORP®	Thermobond 45	VA / AC	Medium Hard	★★★★	★★	
ORP®	5090 MP	VA / W	Medium Hard	★★	★★	
ORP®	7085 HM	VA / AC	Medium Hard	★★	★★	

Redispersible powder polymers offered for insulation board adhesives are able to adhere on both mineral surfaces (wall) and hydrophobic surfaces (insulation boards).

## ETICS / EIFS Base Coats | Redispersible Powders

		Monomer Composition	Polymer Structure	Adhesion on Insulation Boards	Impact Resistance	Hydrophobicity	Features & Benefits
ORP®	7365 HP	VA / AC	Soft	★★★★★	★★★★★	★★★★	
ORP®	Thermobond 74	VA / AC	Soft	★★★★★	★★★★★	—	
ORP®	Thermobond 65	VA / W / AC	Soft	★★★★	★★★★	—	
ORP®	Thermobond 45	VA / AC	Medium Hard	★★★★	★★	—	
ORP®	5090 MP	VA / W	Medium Hard	★★	★★	—	
ORP®	7085 HM	VA / AC	Medium Hard	★★	★★	—	

ORP® Thermobond series of polymers provide water resistance, high adhesion on insulation boards and high impact resistance thanks to their soft/semi-soft and flexible molecular structures.



# Waterproofing Solutions

## 1K Cementitious Waterproofing Mortars | Redispersible Powders

		Monomer Composition	Polymer Structure	Water Resistance	Crack Bridging	Adhesion	Workability	Features & Benefits
ORP®	Hydroflex 64	VA / VV / AC	Soft	★★★★★	★★★	★★★★★	★★★	
ORP®	7365 HP	VA / AC	Soft	★★★	★★★★★	★★★	★★★★★	

High water resistance and flexibility are the key features of recommended powder polymers for water insulation applications.



# Flooring Mortars

## Flooring / Self-Leveling Mortars | Redispersible Powders

		Monomer Composition	Polymer Structure	Flow	Defoaming	Abrasion Resistance	Features & Benefits
ORP®	7680 SL	VA / AC	Hard	★★★	★★★★★	★★★	Rheologically modified powder polymers increase flow ability, sedimentation resistance and abrasion resistance.



# Gypsum Based Plasters & Joint Fillers | Redispersible Powders

		Monomer Composition	Polymer Structure	Abrasion Resistance	Adhesion	Workability	Features & Benefits
ORP®	5090 MP	VA / VV	Medium Hard	★★★★★	★★★★★	★★★★★	
ORP®	5092 MP	VA / VV	Medium Hard	★★★★★	★★★★	★★★★★	
ORP®	7085 HM	VA / AC	Medium Hard	★★★	★★★★★	★★	
ORP®	7099 RD	VA / AC	Hard	★★	★★★★	★★	

Semi-hard and flexible polymers are more suitable for gypsum based applications. Better adhesion behaviour on different surfaces and joint tapes.





# Notes

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## Legend





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