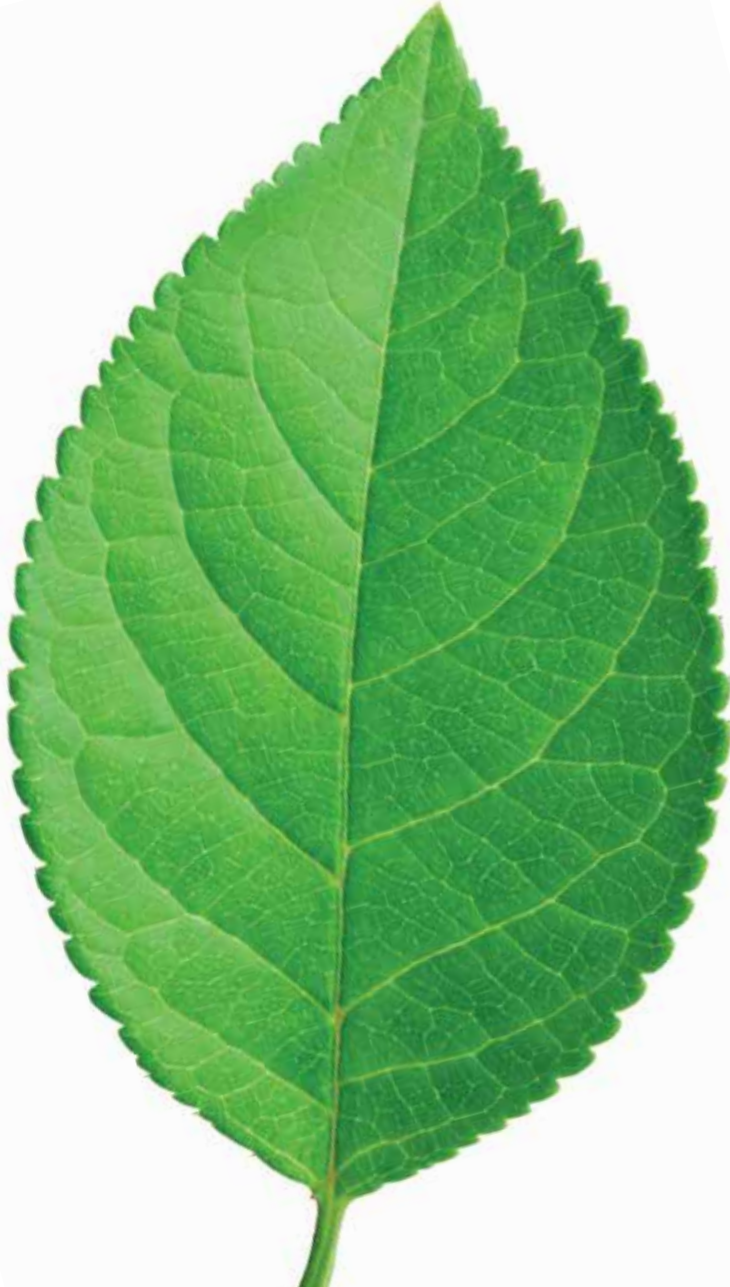




New generation sustainable polymers

ORGAL[®] RW

Renewable Coating Binders



Company Profile

Starting its journey in 1924 as a chemicals trader, today, with over 100 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



New Generation Sustainable Polymers

ORGAL® RW R4630



ORGAL® RW R650



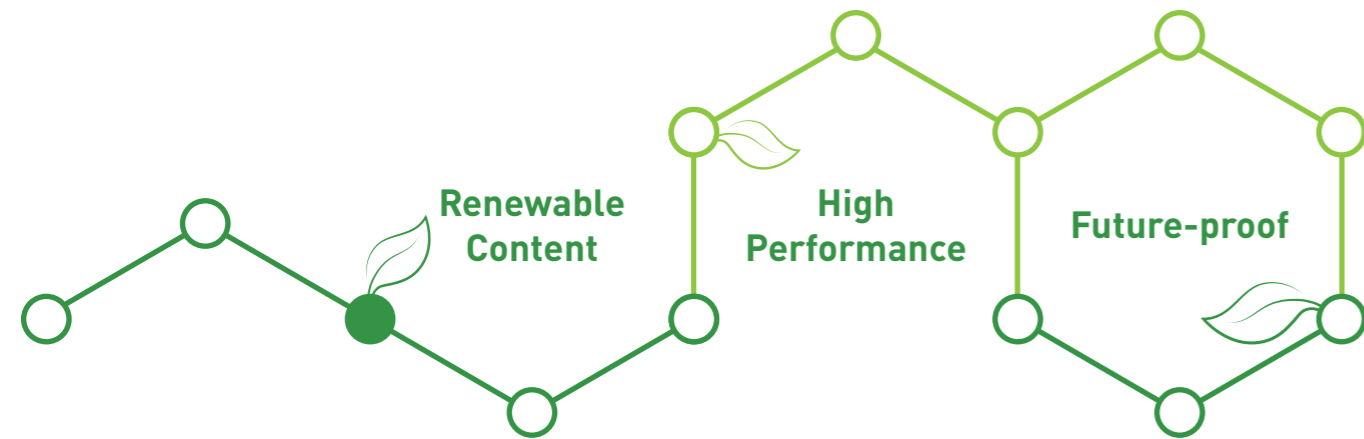
ORGAL® RW R839W

ORGAL® RW Series

New Generation Sustainable Polymers

Contributing to the sustainability of our environment, our society and our economy is one of our most important responsibilities in today's 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 with our future proof product portfolio Orgal® RW. Orgal® RW represents a new generation water-based polymers with sustainable content.



Biobased Products

Biobased products refer to products wholly or partly derived from sustainable renewable sources, such as plants, trees and other biomass materials.

**ASTM D 6866
C14 Biobased Carbon**



Compostable

The term compostable refers to a product or material that can biodegrade under specific circumstances such as humidity, temperature, time, etc.

EN 13432



Recycled

Recycled polymers are a result of chemical recycling of industrial and post consumer plastic waste.

ISO 14025



Biodegradable

A biodegradable product has the ability to break down, safely and relatively quickly, by biological means, into the raw materials of nature and disappear into the environment.



Mass Balance Approach

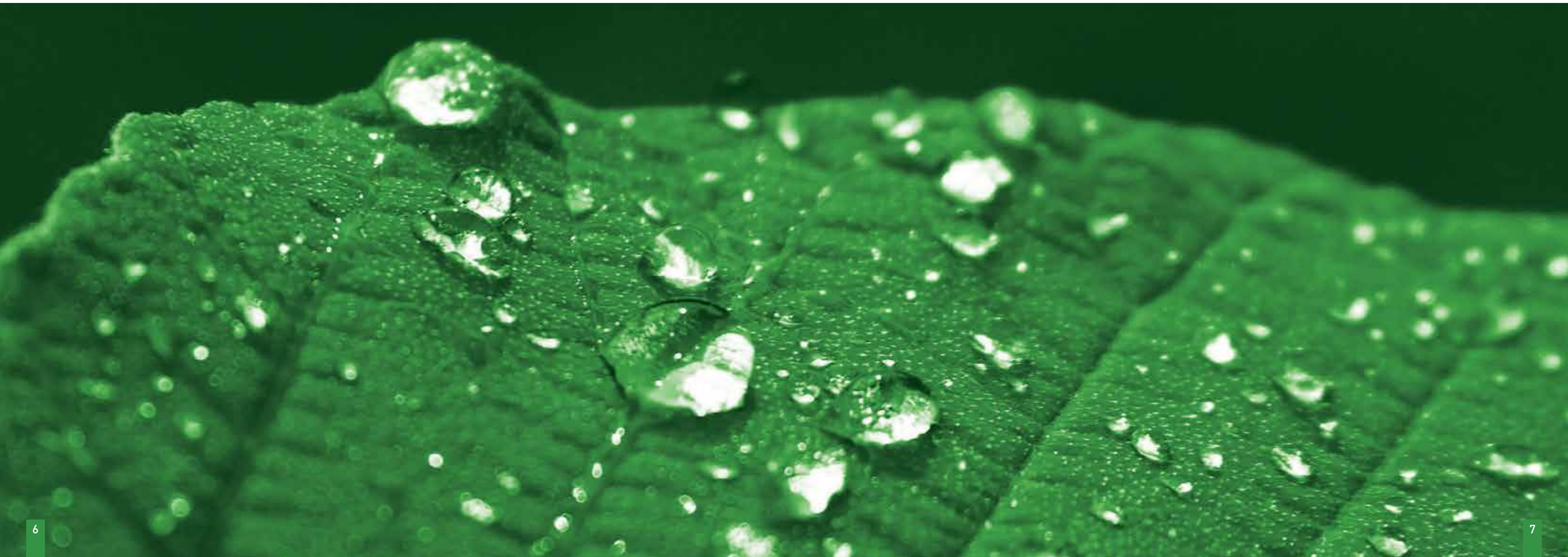
(Bio)mass balance is about mixing fossil and recycled or renewable raw materials in existing systems and processes while keeping track of their quantities and allocating them to specific products.

ISCC PLUS



Tailor Made Solutions

Organik Kimya offers flexible polymer design by sustainable building block selection. Combination of above-mentioned concepts is possible for maximum sustainable value.



ORGAL® RW Coating Binders



Orgal® RW coating binders product portfolio offers biobased and recycled water based binders for a variety of applications. Biobased product portfolio contains C14 biobased building blocks according to the ASTM D6866 Standard. Orgal® RW containing recycled monomer is in line with international 'better' carbon standards and follows ISO 14025. It contributes to circular economy by using materials at the end of their life cycle and enabling their re-evaluation in the system.

	Chemical Composition	Solid Content (±1%)	Sustainable Content %	Content Type	Carbon Footprint Saved per kg (%) (compared to std OK product)	pH	Viscosity (mPa) (max)	MFFT (°C)	Tg (°C)	Applications
Orgal® RW R4630*	AC	40	44	Recycled	46.8	8.0 - 9.0	1000	20 ± 2	n/a	Interior industrial wood coatings and interior trim paints
Orgal® RW R838W*	AC	46	50	Recycled	53.7	7.5 - 8.5	500	14 ± 1	n/a	Exterior and interior applications, wood coatings, and wood stains
Orgal® RW R650*	AC	50	35	Recycled	39.3	8.0 - 8.5	1200	<3	-1	Stain-blocking primers for wood, walls, ceilings and metal surfaces
Orgal® RW R839W	AC	46	51	Recycled	57.8	7.5 - 8.5	500	17 ± 1	n/a	Exterior and interior applications, wood coatings, and wood stains.
Orgal® RW RM838W	AC	46	97.5	Recycled & Mass Balance	88	7.5 - 8.5	500	14 ± 1	n/a	Exterior and interior applications, wood coatings, and wood stains
Orgal® RW R9100*	AC	44 ± 1	45	Recycled	24.5	8.0 - 9.0	1000	<5	n/a	Clear and opaque coatings for joinery applications.

*RM versions will be shared upon request.



ORGAL® RW R4630 Product Highlights

	Chemical Composition	Solid Content (±1%)	Sustainable Content %	Content Type	Carbon Footprint Saved per kg (%) (compared to std OK product)	pH	Viscosity (mPa) (max)	MFFT (°C)	Tg (°C)	Applications
Orgal® RW R4630	AC	40	44	Recycled ♻️	46.8 *	8.0 - 9.0	1000	20 ± 2	n/a	Interior industrial wood coatings and interior trim paints

Properties

- Translucent emulsion with low particle size
- Ultra low surfactant content
- Self crosslinking
- Heterogeneous morphology

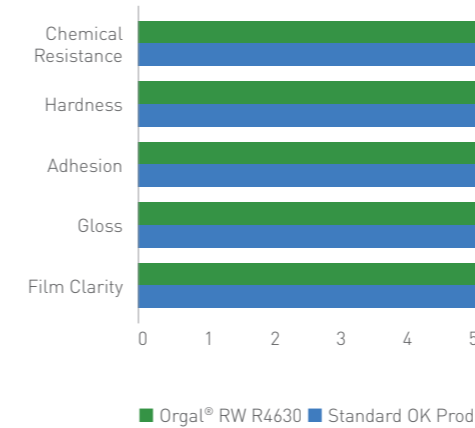
Highlights

- Excellent choice for clear wood topcoats with excellent film aesthetics
- Superb wood warming
- Strong mechanical properties
- Easy to formulate and apply
- Excellent chemical resistance
- Drop-in solution

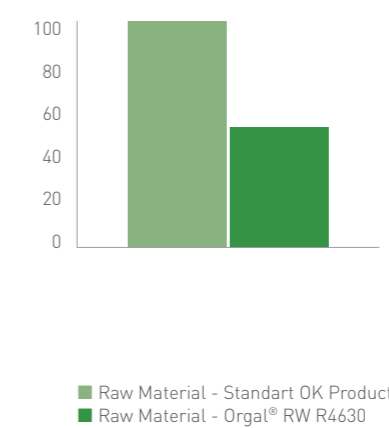
Application

- Interior industrial wood coatings (sealers and clear topcoats, opaque basecoats and topcoats)
- Architectural trim paints (wood stains, varnishes, enamels)

Performance



Carbon Footprint Reduction



For 1 ton of Orgal® RW R4630 production we save: **

4,139 km driven by an average passenger vehicle

382 litres of oil consumed (3.3 barrel)

126,022 smartphones charged

* Full LCA available upon request

** Based on EPA Greenhouse Gas Equivalencies Calculator using 'cradle-to-gate' LCA Global warming potential for production of 1 ton of Orgal® RW R4630 in Kemerburgaz plant.



ORGAL® RW R839W Product Highlights

	Chemical Composition	Solid Content (±1%)	Sustainable Content %	Content Type	Carbon Footprint Saved per kg (%) (compared to std OK product)	pH	Viscosity (mPa) (max)	MFFT (°C)	Tg (°C)	Applications
Orgal® RW R839W	AC	46	51	Recycled ♻️	57.8 *	7.5 - 8.5	500	17 ± 1	n/a	Exterior and interior applications, wood coatings, and wood stains.

Properties

- Acrylic polymer
- Excellent hydrophobicity

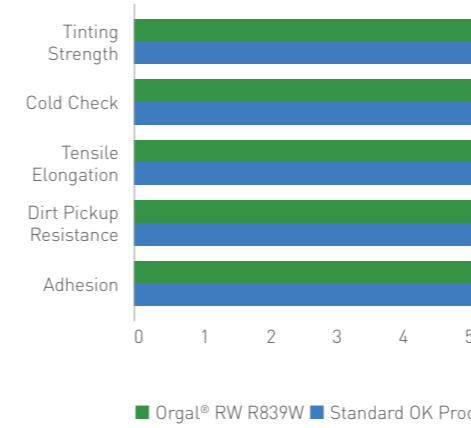
Highlights

- Ultra low liquid water permeability according to EN 927-5
- Great outdoor durability
- High cold check resistance
- Wet adhesion promoted
- High dirt pickup resistance

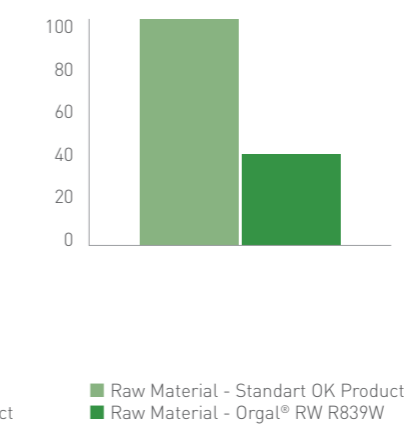
Application

- Exterior wood coatings
 - Wood stains
 - Varnishes
 - Enamels
- Architectural paints
 - Wet room paints
 - Facade paints

Performance



Carbon Footprint Reduction



For 1 ton of Orgal® RW R839W production we save: **

5,752 km driven by an average passenger vehicle

393 litres of oil consumed (3.3 barrel)

175,165 smartphones charged

* Full LCA available upon request.

** Based on EPA Greenhouse Gas Equivalencies Calculator using 'cradle-to-gate' LCA Global warming potential for production of 1 ton of Orgal® RW R839W in Kemerburgaz plant.



ORGAL® RW RM838W Product Highlights

	Chemical Composition	Solid Content (±1%)	Sustainable Content %	Content Type	Carbon Footprint Saved per kg (%) (compared to std OK product)	pH	Viscosity (mPa) (max)	MFFT (°C)	Tg (°C)	Applications
Orgal® RW RM838W	AC	46	97.5	Recycled & Mass Balance	88 *	7.5 - 8.5	500	14 ± 1	n/a	Exterior and interior applications, wood coatings, and wood stains

Properties

- Acrylic polymer

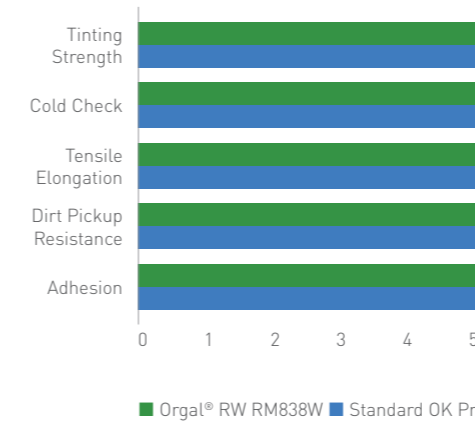
Highlights

- Great outdoor durability
- Wet adhesion promoted
- High cold check resistance
- High dirt pick-up resistance

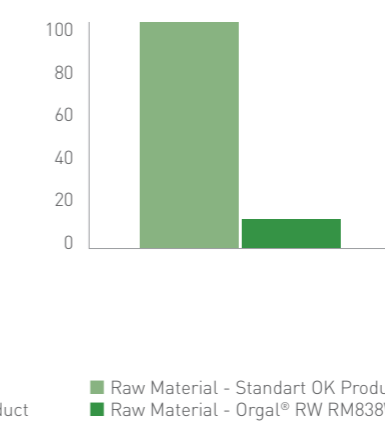
Application

- Exterior wood coatings
 - Wood stains
 - Varnishes
 - Enamels
- Architectural paint
 - Wet room paints
 - Facade paints

Performance



Carbon Footprint Reduction



For 1 ton of Orgal® RW RM838W production we save: **

7,749 km driven by an average passenger vehicle

513 litres of oil consumed (1.2 barrel)

228,499 smartphones charged

* Full LCA available upon request.

** Based on EPA Greenhouse Gas Equivalencies Calculator using 'cradle-to-gate' LCA Global warming potential for production of 1 ton of Orgal® RW RM838W in Kemerburgaz plant.





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