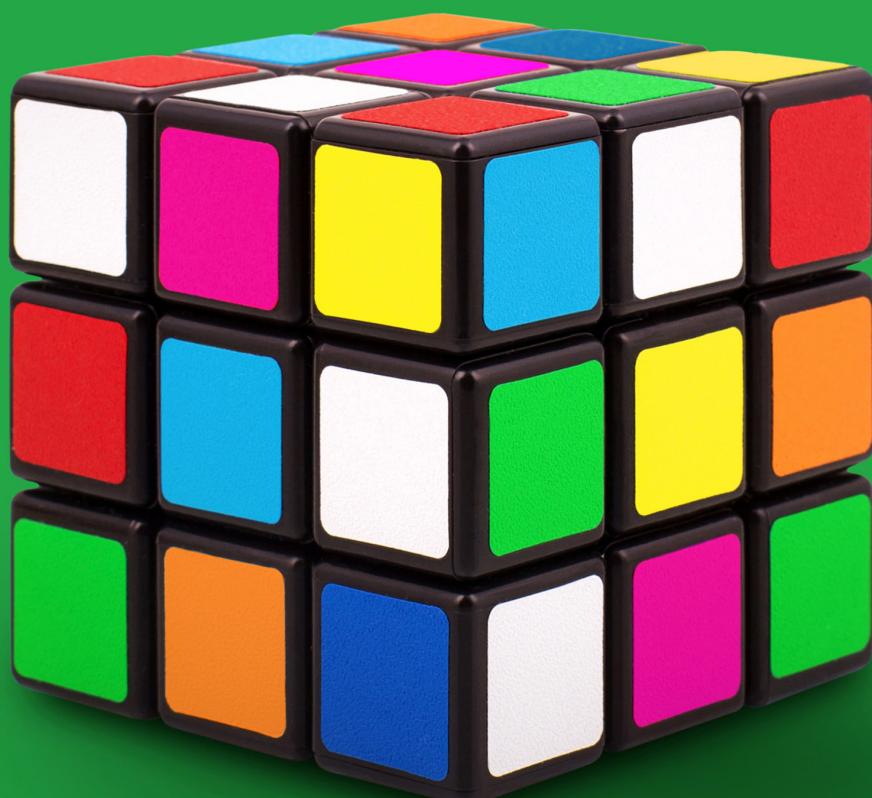


Organic Mineral Binder. Colors reimagined.



Rethinking binders

Imagine a binding agent system that combines the outstanding properties of silicate paints with the versatility of emulsion paints—without any of their typical weaknesses. That is exactly what we have achieved. Working closely with the University of Applied Sciences and Arts Northwestern Switzerland, we have developed a completely new technology: the Organo Mineral Binder (OMB).

OMB is a highly developed, flexible binding agent that not only completely dispenses with biocides, but also impresses with its exceptional water and UV resistance. It adheres reliably to both mineral and organic substrates and offers an exceptional balance of mechanical stability, weather resistance, and optimized processing.

Our innovative formulations not only enable more sustainable production, but also improve the material properties of your products – regardless of the area of application. OMB stands for efficiency, performance, and sustainability – so that your products already meet tomorrow's standards today.



Advantages



Biocide-free

OMB is completely free of biocides and does not require the addition of preservatives, making it an environmentally friendly alternative to conventional paints. Thanks to innovative organo-mineral binder technology, the paint remains durable and resistant to external influences. The special formulation ensures that no additional preservatives are required, which improves indoor air quality and minimizes the risk of pollutant emissions. With OMB, you are choosing a sustainable and healthy coating solution.



Adhesion

OMB impresses with its excellent adhesion to both mineral and organic substrates and meets the highest standards in the cross-cut test (according to ISO 2409 GT 0 / ASTM 5B). The innovative organo-mineral binder technology ensures a stable physical-chemical bond with the substrate. This keeps the coating resistant and durable even under demanding conditions. OMB thus guarantees safe and reliable application on a wide variety of surfaces.



Water impermeability

OMB offers outstanding water impermeability and reliably prevents the penetration of liquids, as demonstrated by its W24 value of 0.029 (DIN EN ISO 1062-3, measured in formulated paint). At the same time, water vapor permeability is maintained so that moisture can escape from the substrate without impairing the protective function of the coating. This balance ensures durable, weather-resistant surfaces and reliably protects buildings from moisture damage. OMB thus combines effective moisture protection with optimal breathability.



UV-Resistance

OMB-based paints are highly UV-resistant and retain their color intensity even after more than 500 hours of direct sunlight. This ensures a long-lasting appearance and significantly reduces maintenance costs. Even under challenging weather conditions, the paint remains stable and resistant. OMB thus offers lasting protection and aesthetics for every surface.



Flexibility

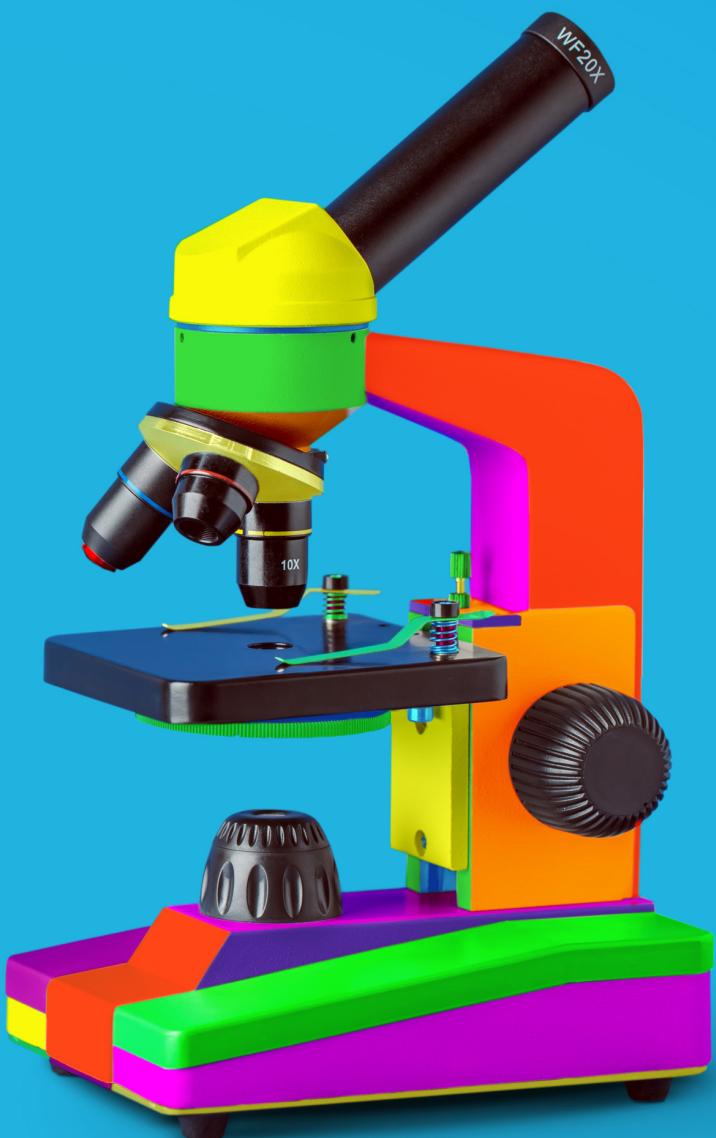
Thanks to its unique organo-mineral binder technology, OMB offers exceptional flexibility and achieves 100% elongation at break at a force of 3.0 MPa. This high elasticity ensures that the paint compensates for stresses in the substrate without tearing or flaking. Even on different mineral and organic surfaces, the coating remains permanently elastic and adhesive. OMB thus combines durability with maximum resistance.



Dirt pick-up

OMB-based paints are characterized by excellent dirt resistance and remain clean and color-intensive even under demanding conditions. Thanks to innovative organo-mineral binder technology, contaminants adhere much less easily to the surface. Even after prolonged exposure to dirt particles or environmental influences, the paint retains its high resistance. This reduces the amount of cleaning required and ensures permanently beautiful, easy-care facades.

Organo Mineral Binder Ideas, that work.



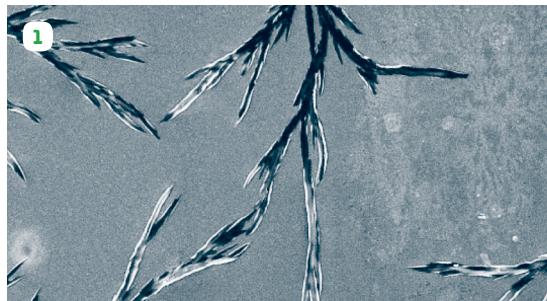
The future is OMB

Developing a binder of the future is not easy—and takes time. The development team at Sintares AG has worked intensively on the properties of existing silicate- and acrylate-based binder systems and has gradually approached an ambitious goal: combining the best properties of both worlds.

In collaboration with renowned research partners, this has resulted in the development of Organo Mineral Binder (OMB)—an innovative hybrid binder that chemically and physically bonds organic and mineral polymers at the molecular level. This unique structure gives OMB outstanding flexibility, high resistance to liquid water and UV radiation, and excellent adhesion to both mineral and organic substrates – all without the use of biocides.

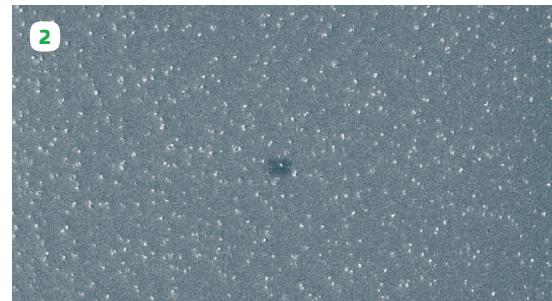
Thanks to acrylic polymers with a low Tg value, OMB also does not require coalescing agents. Additional preservatives are also not required in the formulation. Water vapor permeability is fully retained – a real step forward in the direction of sustainable, high-performance paint systems.

If you look closely, you can see the various steps in the development of OMB:



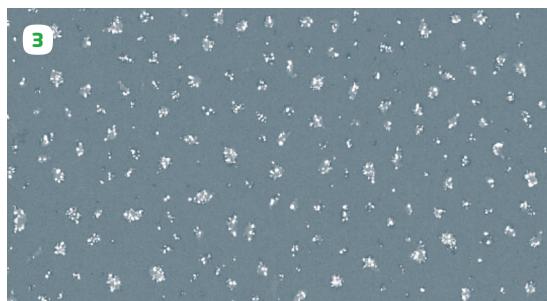
Standard mixture

The 4000x magnification shows a mixture of styrene-acrylic polymer and standard silicate, as used in the paint and varnish industry. The mineral polymer (dark), which forms a brittle, glass-like domain, is clearly visible.



Compatible polymers

As can be clearly seen in the image (magnified 4000 times), great progress has already been made in terms of homogeneity simply by adjusting the mineral polymer.



OMB technology x4000

Further developments have resulted in OMB technology. It is characterized by improved homogeneity and the effective interaction of mineral and organic polymers.



OMB technology x5000

The repeated magnification (5000x) clearly shows the homogeneity of the hybrid organo-mineral binder. OMB combines the two technologies in a binder that can be used both alone and in combination with other compatible organic polymers.

Applications

Solutions that fit.



Our portfolio

We focus on two key areas of application: building paints and wood coatings. Both fields benefit from our many years of experience and the continuous development of our products.

Architectural paints



OMB was specifically developed for use in high-quality building paints – with the aim of enabling durable, aesthetically pleasing and, at the same time, easy-to-apply facade coatings. The innovative combination of acrylate and silicate technology combines the best properties of both systems: it offers excellent adhesion to a wide variety of substrates, high resistance to UV radiation, and exceptionally good dirt resistance.

OMB-based facade paints retain their color brilliance and surface quality over a long period of time – even under demanding weather conditions. At the same time, the formulation does not require the use of traditional biocides, making it particularly environmentally friendly and suitable for sensitive areas of application. The result is modern, high-performance, and sustainable facade coatings that meet today's requirements for function, aesthetics, and environmental awareness in equal measure.

Wood coatings



As a biocide-free hybrid binding agent that combines the advantages of mineral and organic systems, OMB is ideal for use in wood preservation. The system adheres reliably even to difficult wood substrates, remains flexible under changing environmental conditions, and provides lasting protection against moisture and UV radiation – without the use of traditional preservatives.

The stable chemical-physical bond between the components ensures durability without compromising the open porosity of the wood. OMB thus stands not only for technical innovation, but also for sustainable, low-emission, and user-friendly wood preservation for the future.

Our products – Technologically advanced, sustainably convincing

Here you will find the most important technical data and properties of our main products. They serve as a sound basis for your product development, planning, and application—precise, transparent, and practical.

Properties	OMB 121	OMB 123	OMB 131	OMB 133	OMB 135	OMB 165	OMB 233	OMB 515
Solid content % by weight	46.5%	46.0%	45.5%	45.5%	45.0%	46.0%	45.0%	44.0%
Minimum film formation temperature	2°C	7°C						
pH level	11.0–11.5	11.0–11.5	11.0–11.5	11.0–11.5	11.0–11.5	11.0–11.5	11.0–11.5	11.0–11.5
VOC ppm	< 3'000	< 1'000	< 3'000	< 1'000	< 4'000	< 4'000	< 7'000	< 4'000
Density 20°C	1.06	1.06	1.08	1.08	1.08	1.08	1.09	1.06
Viscosity 20°C	40–400 mPas.	40–300 mPas.	40–300 mPas.	40–150 mPas.	30–200 mPas.	50–400 mPas.	30–400 mPas.	20–200 mPas.
Applications	OMB 121	OMB 123	OMB 131	OMB 133	OMB 135	OMB 165	OMB 233	OMB 515
Architectural paints	••••	••••	••••	••••	••••	••••	••••	•
Plaster	•••	••	•••	•••	••••	•••	••	•
Wood coatings	•	•	•	•	•	•	•	•••
Indoor use	•	••••	•	••••	••••	••••	••••	••••
Outdoor use	••••	•	••••	•	••••	••••	•	••••

Standard recipe architectural paints

Ingredients % by weight	Matte Coating	Universal primer	Exterior plaster	Wood coating white
Water	27.13	21.66	6.80	11.96
Hydroxyethyl cellulose (HEC)	0.15			
Natrosol 250HHBR		0.20		0.18
NaOH 50%	0.09	0.08		
NaOH 30%				0.14
Lopon E81	0.20	0.20		0.10
Disponil A 1080	0.45			
Emulsogen LCN 118		0.45		0.20
Methocel 228			0.20	
Glanpon 510			0.10	
Ecodis P50			0.50	
Hectorite solution 10%			1.50	
Bentone CT				
Polyacrylnitril 235 / 150			0.90	
Ti-pure R-706 / Kronos 2310	13.74			21.00
Tiona 595		12.01		
TiO2 NR960 white rutile pigment			3.20	
Durcal 5 / Omyacarb 5	21.69			10.00
Omyacarb Extra CL / Durcal 1	7.00			
Plastorit 00		14.01		
Mistron 754 G	14.46	10.01		14.00

	Disperse 15 mins, then add under stirring:	Disperse 5 minutes	Disperse 10 mins
Lopon E81			0.10
OMB 121	13.72		
OMB 131		40.05	
OMB 135			12.20
OMB 515			42.00
Coapur 830 W / Coapur XS 83	0.15	0.10	
Coapur 2025	0.40	0.40	0.22
Omyacarb 10 SV			9.60
Omyacarb 15 SV			9.50
Omyacarb 40 SV			9.50
Omyacarb 130 SV			9.50
Omyacarb 0.5- 1.0 SV			6.40
Omyacarb 1.5-2.0 SV			19.00
Glanpon 510			0.10
Omyacarb 1.5-2.0 SV			9.50
Ombrelub 730			1.00
Water	0.62	0.63	Stir 10 minutes
Lopon E81	0.20	0.20	0.10
Acticide MKB 3			0.50
Total	100.00	100.00	100.00

About us

Goals that inspire.



Our experience, your advantage

Sintares AG has its origins in vanBaerle AG, a long-established Swiss company with over 130 years of experience in the manufacture of high-quality silicates.

This long-standing expertise forms the foundation of our work. Intensive work on the development of OMB began back in 2020.



Over 130 years of traditional company history in Münchenstein ...



... are being continued in a modern form at the Klybeck site.

With the founding of Sintares AG in April 2025, the innovative OMB product is now being driven forward in a new corporate structure with a clear focus on further development and marketing. Our team brings a wide range of experience and expertise to the table and combines this with fresh ideas and a clear vision for the future: a more sustainable paint market, free of biocides – for a healthier environment and future generations.

With passion and expertise, we are working to exploit the full potential of this technology, continuously opening up new fields of application and thus making an active contribution to greater environmental compatibility in the paint industry. Our goal is to continuously develop OMB and promote its dissemination as a sustainable alternative for the future.

Your project, our expertise

Would you like to develop a color based on OMB? We will support you—competently and cooperatively. Our employees will work closely with you to reuse existing raw materials and implement your requirements. This service offers an ideal opportunity to create innovative, sustainable products with minimal effort.



Simon Grossmann

Head of Sales

📞 +41 79 364 60 96

✉️ simon.grossmann@sintares.ch



Caroline Dorcier

Head of R&D

📞 +41 79 427 63 97

✉️ caroline.dorcier@sintares.ch

Sintares AG

Klybeckstrasse 191
WKL 136
4057 Basel
📞 +41 79 745 25 25
✉️ info@sintares.ch