

# PLEXICOR<sup>®</sup> Xkin

For Façades that Appeal to the Senses



# PLEXICOR® Xkin

## The extremely resistant cladding panel for building shells.

This mineral-filled acrylic material homogeneously colored all the way through can be formed in three dimensions. It has a special surface and unique reflection behavior, making it the ideal choice for façade panels that need to meet stringent requirements.

PLEXICOR® Xkin, a patented innovation from Evonik Röhm GmbH.

# Sensual Appeal

Feel, form and light are all elements of a perfect and unique-looking structural skin – the aim of all façade design that aspires to individuality. This calls for a material that meets high aesthetic demands while encouraging new, one-off creations.

PLEXICOR® Xkin is a façade material that satisfies both requirements to the full.

The velvety surface of PLEXICOR® Xkin combines with the potential offered by free organic formability and unique light reflection to transform façades into a new and sensual experience.

Whether you are designing façade elements that are storey-high, formed, individually routed or printed, PLEXICOR® Xkin gives you complete creative freedom.



# Safety

Of course, the shell of a building has to do more than just look good. As the outer skin, it also has to withstand atmospheric influences. PLEXICOR® Xkin is therefore an extremely impact-resistant façade material with a very long service life due to its inherent UV stability.

PLEXICOR® Xkin combines the longevity and toughness of a homogeneous sheet material with the proven benefits of ventilated façades, like separating heat protection from weathering. Combined with conventional supporting structures, the result is a robust façade system with a new sensual feel for safe, individual façade solutions.



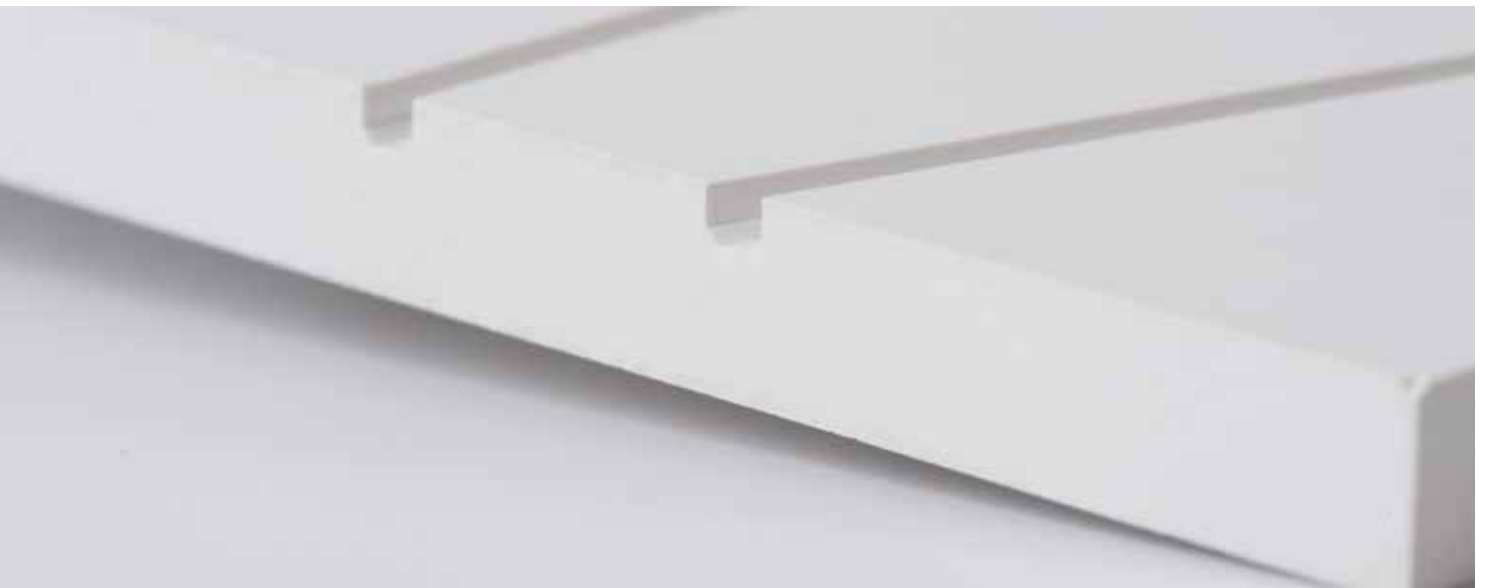
# Color and Surface

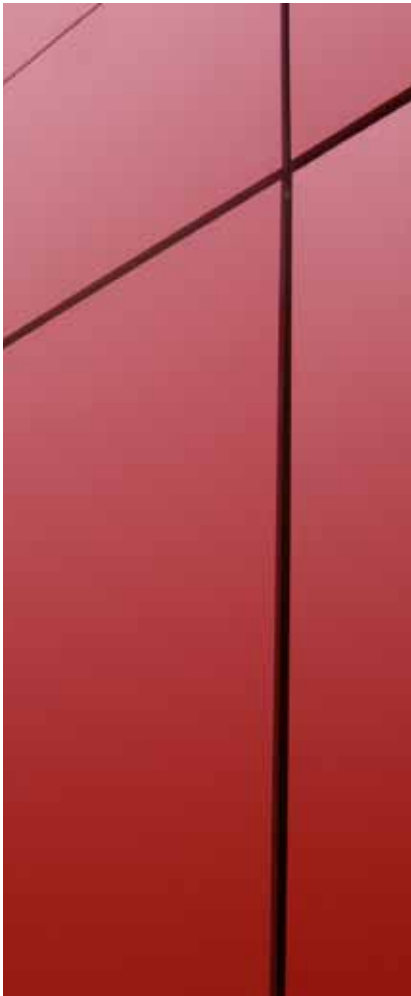
Color is one of the most distinguishing features of a material. The velvety surface of PLEXICOR® Xkin and its special reflective surface unite to provide color that is more brilliant, has a more individual effect and offers durable stability.

PLEXICOR® Xkin exists in several striking standard tones (the Originals), as well as numerous project-specific (Identity)

shades that can be matched at any time according to the RAL and NCS color system.

Since PLEXICOR® Xkin is a façade panel with uniformly molded-in color, it is particularly suitable for individual designs with surfaces routed to different depths, and for creating textured façades. Printed surfaces are also possible.





## Economy and Size

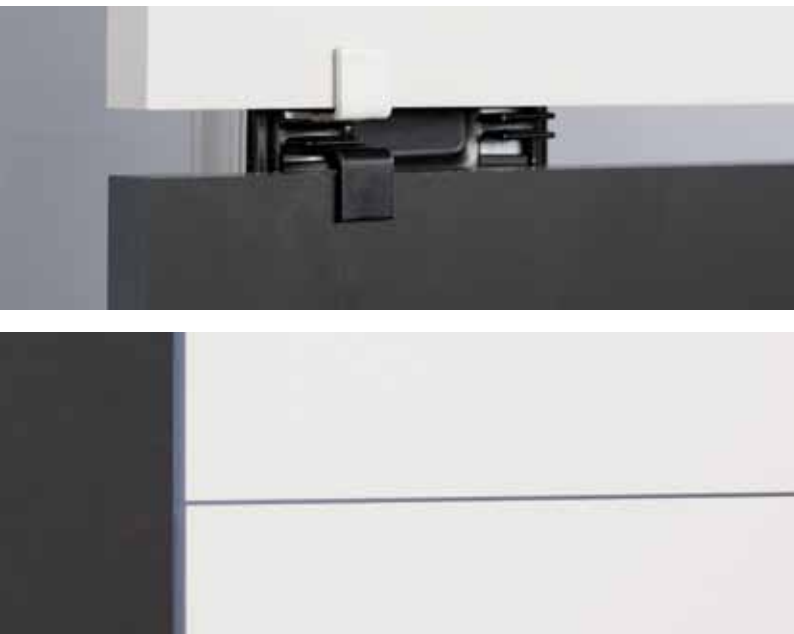
PLEXICOR® Xkin makes it possible to produce two- or three-dimensionally formed façade sections as well as formed parts for corner, intrados and lintel elements to provide seamlessly matching façade connections. Both rounded and angled corners are possible. At the same time, the use of molded parts reduces the effort for realizing complex connection and joint details, making the façade solution with PLEXICOR® Xkin more economical.

PLEXICOR® Xkin is offered in different formats and thicknesses, whether thick, thin, large or small. With sheet formats up to 4.2 x 2 m, storey-high façade elements with finished surfaces are no problem. It goes without saying that the material can also be cut to size and prefabricated for your individual façade solution.

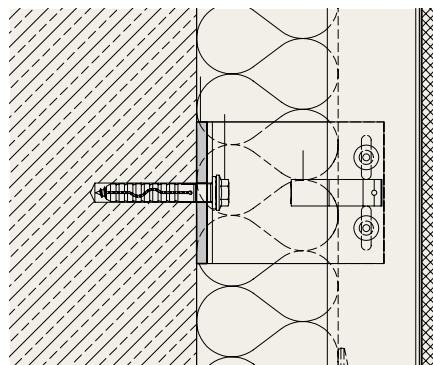
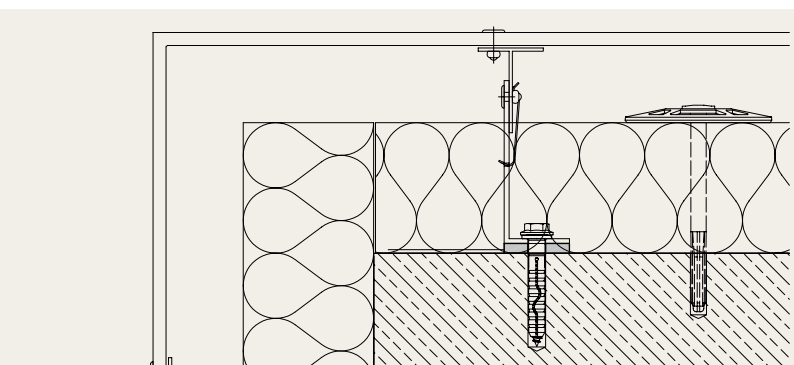
# System and Fastening

Combined with all conventional aluminum supporting structures, PLEXICOR® Xkin façade panels provide façade systems that are perfectly aligned in every detail.

Clamps or rivets can be used as visible fastening elements, and undercut anchors are available for invisible fastening. We will be pleased to assist you with planning by providing detailed drawings or bid documents for your individual façade solution.



Different types of fastening



System details to support planning

# Fire Protection and the Environment

In terms of fire behavior, PLEXICOR® Xkin is a “non-smoker”. It takes a very long time to ignite, burns with a pale yellow flame and emits very little smoke. The smoke gases of PLEXICOR® Xkin are non-corrosive and its composition prevents the formation of dioxins. The smoke gases are not toxic either. That means people can keep a clear view of emergency exits for a long time even if smoke gases are produced, enabling them to find their way out. PLEXICOR® Xkin burns without burning droplets, which increases safety for people fleeing from a fire and for fire fighters too. PLEXICOR® Xkin is rated in Class D, s2, d0 according to EN 13501-1. PLEXICOR® Xkin plus is rated B, s0, d0 and can therefore be used in buildings up to 22m high.

Being a cast acrylic filled with natural minerals, PLEXICOR® Xkin is an environmentally friendly material. It is a chemically stable product with negligible impact on the environment, and has a low VOC (volatile organic compound) content due to its environmentally friendly and resource-conserving manufacturing process.

As a company that takes its corporate responsibility seriously, we consider environmental protection and resource conservation to be one of the most important challenges for securing our global future. In keeping with this belief, we are also a founding member of the German Sustainable Building Council (DGNB).

Member of:



Certified to  
ISO 9001:2008 and  
ISO 14001:2004



## Sales Range

### PLEXICOR® Xkin/ PLEXICOR® Xkin Plus

Thickness	8 mm	10 mm	12 mm
<b>Sizes (mm)</b>			
3050 x 2030	•	•	•
4200 x 2030			•
<b>Type of fastening</b>			
visible	•	•	•
invisible		•	•

## Typical Values of

### PLEXICOR® Xkin/PLEXICOR® Xkin Plus

Properties	Unit	PLEXICOR® Xkin	PLEXICOR® Xkin Plus	Test method
Flexural modulus of elasticity	MPa	min. 4700	min. 5800	ISO 178
Flexural strength	MPa	78	min. 50	ISO 178
Fire behaviour		D, s2, d0	B, s0, d0	DIN EN 13501-1

\* = registered trademark

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Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

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