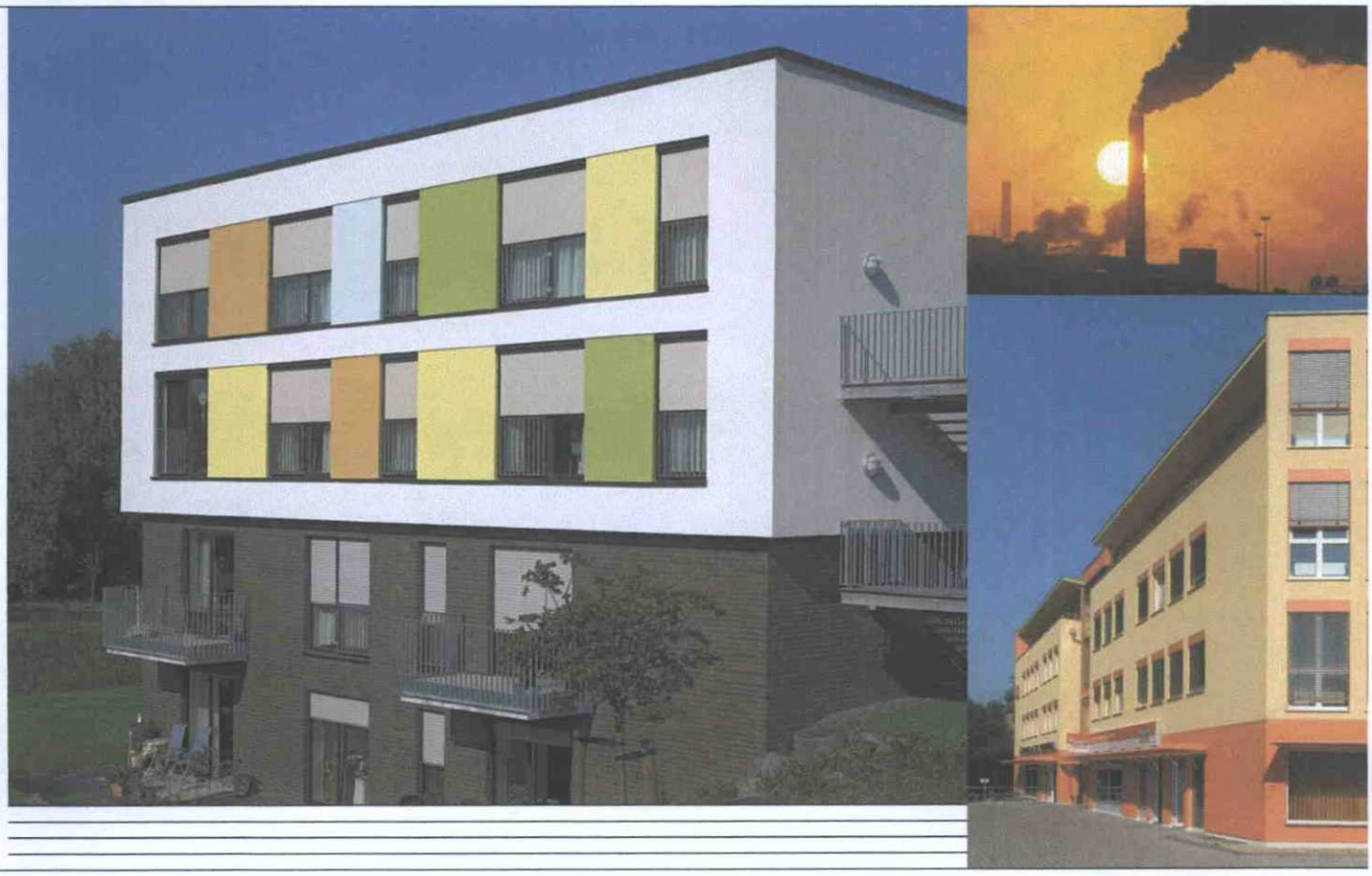
Brillux facade systems: perfect protection and individual design



Brillux
..more than just paint

The facade – your business card and protective shield



At first glance, it is the facade of a house that strikes the eye; the other elements of the building remain hidden behind it. Although the word means the principal front of a building, facing on to a street or open space, the facade performs multiple functions beyond merely highlighting a building's face. It protects against damage caused by abrasive wind, changes in weather and temperature, and environmental impact – plus it contributes to the stability of the building.

For these reasons a facade has always been a combination of aesthetic design and practical functionality as well as a playground for creativity. Even the most spectacular and beautiful facades have never been just decoration; they have always had a protective role, too.

Throughout the lifetime of a house, the facade is exposed to a great variety of different types of negative effects. In urban areas, they are mainly environmental factors such as air pollution and vibration caused by traffic, while weather conditions may play a more important role in rural areas. Facades must be able to withstand all of these without losing their protective function. For this reason, conserving the value of a house begins with choosing the right design and construction and continuously maintaining it by taking appropriate preventive action against damaging effects.

Systematic value conservation

The condition of a facade tells you a lot about the general condition of a building. That's why systematic facade protection should have a high priority at all times in order to conserve long-term value. Our tried and tested Brillux facade systems are ideal to ensure this protection. They can be matched to any type of facade, fit all building materials perfectly and are always based on innovative products which are adjusted to each other systematically. Our many years of practical experience in this field is the secret behind these successful systems. It enables us to provide you with optimum solutions which will meet all of your value conservation requirements.











Looking beyond the surface



Step by step: Before thinking about the design of the surface, the substrate of the facade should be analyzed in detail. An insufficiently prepared substrate can cause adhesion problems when coupled with the wrong coating material. Because of this substrate properties should be carefully checked and then the substrate itself properly prepared.

To that end, a primer coat is required which perfectly matches the specific structure of the substrate. Brillux offers a great variety of priming agents which provide the optimum solution for coating practically any substrate and create the perfect basis for a lasting facade coating.

The right primer for any substrate

	Lacryl Deep-Penetrating Primer LF 595	Deep-Penetrating Primer 545	Adhesion Primer LF 3720	Priming Concentrate ELF 938	Festodur Primer 949	Silicate Primer 1803	Silicone Hydro-Primer 913	Silicone Priming Paint 917
new uncoated fiber cement boards	Required in every case: Epoxy Primer 855 on all surfaces							
normal absorbent concrete	+++	++	++		++	++	++	
low-absorbent concrete	++	++	+++		+++	++	++	
chalk render P I b, c (as per German standard)						+++	+++	
cement chalk render, cement render P II + III (as per German standard)	+++	++				+++	+++	
chalk sand brick						+++	+++	
aerated concrete	++			+++		+++		
brickwork	++	+++	++		+++	++	++	
facade paint, matt, chalking	++		+++	++				+++
facade paint, not matt			+++					
facade paint, elastic			+++					
organically bound plaster	+++		+++					+++
silicate paint, silicate plaster						+++		
silicone plaster			++					+++

+++ very good

++ good

not suitable

For more information, refer to the corresponding data sheets at www.brillux.com.

Professional systems for individual facades

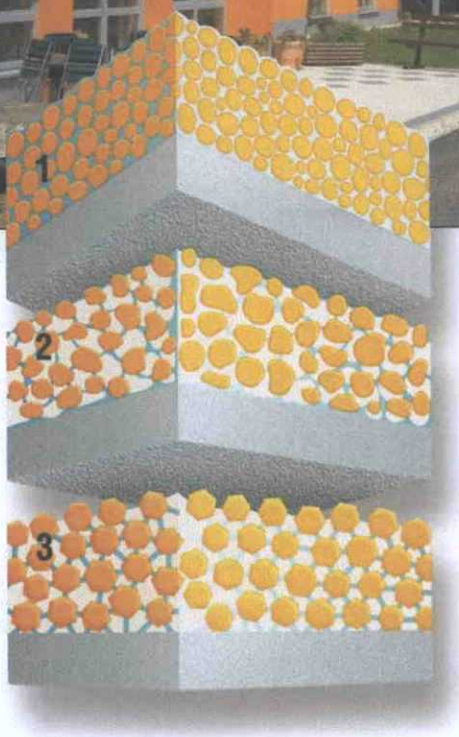
Success is guaranteed if you use complete special systems which are perfectly coordinated to your facade. In addition to the type of substrate, issues such as environmental impact or the color required by the customer are important factors for selecting the right facade system.

The most important properties of a facade system are mainly determined by the binding agent used. For this reason, facade paints and the corresponding system components are categorized according to the type of binding agent.

As one of the leading paint manufacturers in Europe, we pride ourselves on our experience coating millions of square meters of facades and decades of successful research and development achievements. Based on the three binding agent types used most frequently in practice – dispersion, silicone and silicate – Brillux offers three facade systems with which almost any exterior surface can be treated efficiently – for optimum protection and individual design.







The right coating for any system

Depending upon the binding agent used, facade paints can be classified into the following categories:

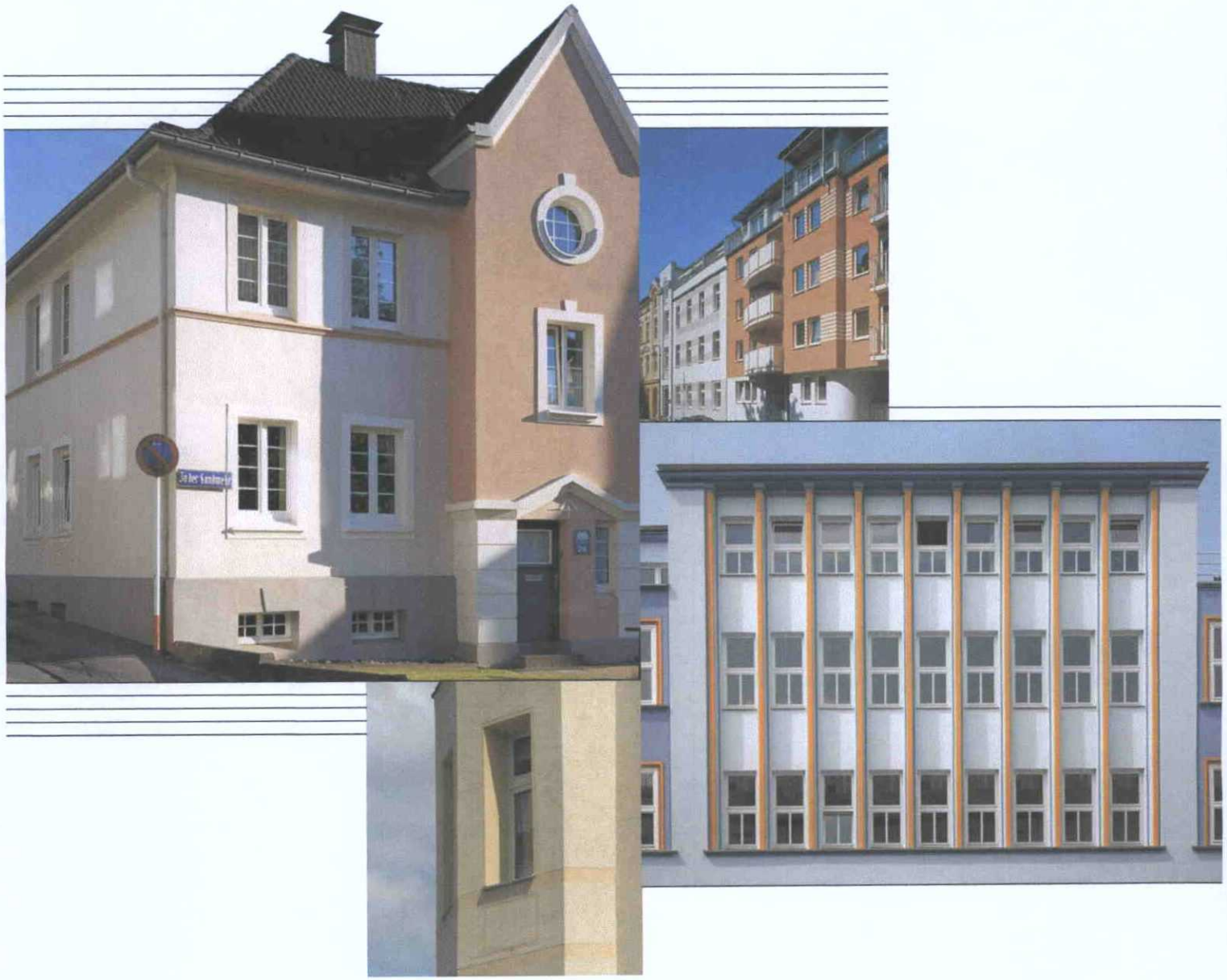
1. ***Dispersion paint system:*** *Pigments are completely sheathed by the binding agent*
2. ***Silicone resin paint system:*** *Pigments and filler materials are not coated fully but connected to one another by binding agent bridges*
3. ***Silicate paint system:*** *Pigments and substrate are connected to each other by silicate crystal lattices*

Organically bound – perfectly protected

Facades are exposed to great environmental impact, in particular in urban and industrial areas. The organically bound facade systems offered by Brillux provide long-term protection against aggressive airborne pollutants as well as against windborne abrasion, temperature changes, and different types of weathering.

Plasters in this category contain organic, waterborne bonding agents and mostly consist of mineral compounds which are connected each another by the binding agent. As a result, they provide high mechanical resistance and can be applied to all substrates.

The organically based facade paints which are perfectly adjusted to different plasters are particularly color stable and, due to their organic and mineral tintability, can be produced in wide variety of color shades. All products in this category provide optimum facade protection and offer a vast range of design opportunities.





Rausan R/KR
- organically bound
- grooved and scraped plaster finish
- different grain sizes
- high mechanical resistance
- also available in Protect quality
- can be tinted using the Brillux Color System

Rausan KR Reveal Plaster 3530
- extremely durable
- non-granular structure
- especially suitable for surfaces in the Brillux ETIC System
- also available in Protect quality
- can be tinted using the Brillux Color System

Modeling Plaster 919
- many structuring options
- free from cement and chalk
- also available in Protect quality

Facade Brush-On Filler 444
- fiber-reinforced
- crack-filling
- also available in Protect quality

Acrylic Facade Paint 100
- photocatalytic effect
- 100 % pure acrylate facade paint
- high color shade durability
- also available in Protect quality
- wide range of color options

Top Elastic Facade Paint 380
- for permanent crack filling
- cold-elastic
- can be used both as an intermediate and top coat
- also available in Protect quality
- can be tinted using the Brillux Color System

Full Color and Tinting Paint 951
- 20 full tints for manual tinting of organically bound facade paints

Vivalin Facade Glaze 866
- for decorative effects on facade surfaces
- matt
- suitable for smooth or structured surfaces
- dries slowly to allow time to create special surface effects
- also available in Protect quality







Organically bound system advantages

- wide color shade variety plus color stability
- can be used on all substrates
- high mechanical resistance
- high resistance against aggressive airborne pollutants
- ideal for use in both urban and industrial environments

Excellent moisture protection: the Brillux Silicone System







Water is the biggest threat to facades. On the one hand, it encourages the formation of algae and fungus, and on the other hand moisture penetrating the facade can damage the brickwork and cause the coating to chip off when exposed to frost. Thus optimum protection of a facade starts with protection against water. The Brillux Silicone System is one of the most modern facade systems available, providing high water-repelling effects while ensuring excellent water vapor diffusibility. In this way, moisture cannot penetrate into the brickwork and, as an additional advantage, dust can be easily washed off. The Brillux Silicone System can be used for different substrates because it combines both mineral and organic properties.

Silicone Plaster KR and R
- silicone resin based
- highly water-repellent
- grooved and scraped plaster finish
- different grain sizes
- also available in Protect quality
- can be tinted using the Brillux Color System

Silicone Brush-On Filler 910
- structure-enhancing filler paint coat
- for leveling substrates with different structures
- also available in Protect quality

Silicone Priming Paint 917
- primer coat in silicone system
- also available in Protect quality
- can be tinted using the Brillux Color System

Silicone Facade Paint 918
- microporous facade paint
- highly water-repellent
- suitable for both mineral and organic substrates
- also available in Protect quality
- can be tinted using the Brillux Color System

Silicone Aerated Concrete Coat 449
- highly filling
- water-repellent
- complies with the guidelines issued by the aerated concrete manufacturing industry

Mattosil Facade Paint 960
- water-repellent
- silicone reinforced
- can be tinted using the Brillux Color System

Advantages of the Brillux Silicone System

- low soiling tendency
- water-repellent
- high diffusibility
- effective protection against airborne pollutants
- universal use

Cultural heritage protection and restoration: the Brillux Silicate System

The Brillux Silicate System offers a complete range for mineral substrates: it is both weather-resistant and water vapor diffusible. It's perfect for the restoration of historic and listed cultural heritage buildings. Its effect is based on the process of silicification, a chemical combination of the coating materials with the substrate. As a result, the range of application of the silicate system is restricted to mineral substrates, the surfaces of which are capable of silicification.

Mineral Light Plaster KR and R
- light plaster made of mineral bonding agents
- very adhesive on mineral substrates
- powder forn
- grooved and scraped plaster finish

Silicate Plaster KR and R
- mineral decor plaster
- diffusible
- grooved and scraped plaster finish
- different grain sizes
- highly adhesive due to silicification bonding with substrate
- also available in Protect quality
- can be tinted using the Brillux Color System

Silicate Spray Plaster 3638
- silicate-based spray plaster
- efficient spray coating
- also available in Protect quality

Silicate Brush-On Filler 3639
- single-component brush-on filler with a silicate base
- structure-enhancing filler effect
- for leveling substrates with different structures
- also available in Protect quality

Silicate Facade Paint 1804
- single-component facade paint with a silicate base
- highly diffusible
- silicifies with substrate
- can be tinted using the Brillux Color System



Silicate Finish 1811
- weather-resistant
- good covering capacity
- leveling coating for identical-shade colors on mineral plasters
- also available in Protect quality
- can be tinted using the Brillux Color System

Color Concentrate ELF 9018
- for manual tinting of silicate facade paints
- 7 full tints



Advantages of a silicification system

- complete range from filler to final finish
- diffusible and sorption compatible
- weather-resistant
- silicifying
- ideal for use on historic and listed cultural heritage buildings

When the facade turns green



In addition to soiling, microorganisms are increasingly a problem for exterior surfaces. Due to reduced SO_2 concentration in the air and the increase in airborne nitrogen combinations, facades are being infested more and more by algae and fungus. Although these robust organisms do not cause actual damage to the facade, they do affect the visual appearance of the building. For this reason, protection against algal and fungal attack is not only good for the appearance of your facade but also conserves the value of the whole building. Potentially endangered facades should be identified as early as possible to be able to take immediate appropriate action. Protect, the flexible protection concept offered by Brillux, provides preventive film protection of the facade coating for many different types of surfaces, including wood.

Algal and fungal attack risk factors

Endangered facades:

- all moist surfaces
- buildings without eaves
- defective drainpipes
- shaded areas
- vegetation or water sources nearby
- all highly heat-insulated surfaces

Endangered wooden structures:

- surfaces with high moisture exposure / retention and low exposure to the sun
- roof undersides
- carports

The solution against microorganisms

In the past, protection against algal and fungal growth was limited to a small number of products. The Protect concept developed by Brillux can now offer high resistance against microbial impact on coatings for all substrates and in all colors. Numerous plasters, facade paints and woodstains are available in Protect quality. They ensure dry surfaces, thus removing the breeding ground for microorganisms.

Nothing is forever

However, it is not possible to guarantee lasting protection against algae und fungus without regular maintenance and renovation of the coating.



Protect products at a glance

Facade paints

	w value as per DIN EN ISO 1062-3	sd value as per DIN EN ISO 7783-2	Colors: bright	Colors: medium	Colors: dark	Colors: intensive/ brilliant
Silicone Facade Paint 918 *Protect*	low	class 1	yes	yes	yes	–
Acrylic Facade Paint 100 *Protect*	low	class 2	yes	yes	yes	yes
Silicate Finish 1811 *Protect*	low	class 1	yes	yes	yes	–
Top Elastic Facade Paint 380 *Protect*	low	class 2	yes	yes	yes	yes
Silicone Priming Paint 917 *Protect*	low	class 1	yes	yes	–	–
Silicone Brush-On Filler 910 *Protect*	low	class 1	yes	yes	–	–
Silicate Brush-On Filler 3639 *Protect*	medium	class 1	yes	yes	–	–

	w value as per DIN EN ISO 1062-3	sd value as per DIN EN ISO 7783-2	Colors: bright	Colors: medium	Colors: dark	Colors: intensive/ brilliant
Concrete Finish 839 *Protect*	low	class 2	yes	yes	*	*
Acrylic Concrete Paint OS 859 *Protect*	low	class 2	yes	*	*	*
Concrete Elastomer OS 862 *Protect*	low	class 2	yes	*	*	*
Facade Brush-On Filler 444 *Protect*	low	class 2	yes	yes	–	–
Silicone Aerated Concrete Coat 449 *Protect*	low	class 2	*	*	*	–
Vivalin Facade Glaze 866 *Protect*	low	class 2	as per color chart Creativ Viviato 72			

* Larger amounts of tinted material can be produced in the factory.

Plasters

	w value as per DIN EN ISO 1062-3	sd value as per DIN EN ISO 7783-2	Colors: bright	Colors: medium	Colors: dark	Colors: intensive/ brilliant
Rausan *Protect*	low	class 2	yes	yes	yes	yes
Silicone plaster *Protect*	low	class 2	yes	yes	yes	–
Silcosil *Protect*	low	class 2	yes	yes	*	–

	w value as per DIN EN ISO 1062-3	sd value as per DIN EN ISO 7783-2	Colors: bright	Colors: medium	Colors: dark	Colors: intensive/ brilliant
Silicate plaster *Protect*	medium	class 2	yes	yes	*	–
Modeling Plaster 919 *Protect*	low	class 2	*	*	*	*

* Larger amounts of tinted material can be produced in the factory.

Woodstains, Top Coat and Ventipaint

		aromatics-free, mild odor	water-dilutable	Substrates (exterior only): dimensionally accurate components	Substrates (exterior only): components with limited dimensional accuracy	Substrates (exterior only): components without dimensional accuracy	Colors: standard colors	Colors: Brillux color system
Surface Woodstain 620 *Protect*	drip-inhibited thin-layer woodstain	yes	–	primer coat	primer and intermediate coat	primer, intermediate and top coats	colorless plus 11 more colors	yes
Gel Woodstain 510 *Protect*	drip-free gel woodstain	yes	–	primer coat	primer, intermediate and top coats	primer, intermediate and top coats	colorless plus 11 more colors	yes
High Build Woodstain 565 *Protect*	gel-like thick-film woodstain	yes	–	Intermediate and finish coats	top coat	–	colorless plus 10 more colors	yes
Top Coat 871 *Protect*	silk-matt dispersion paint	–	yes	–	primer, intermediate and top coats	primer, intermediate and top coats	white plus 15 more colors	yes
Ventipaint 822 *Protect*	silk-gloss alkyd resin paint	yes	–	primer, intermediate and top coats	primer, intermediate and top coats	–	white	yes

For more information, refer to the corresponding data sheets at www.brillux.com.

The new dimension in efficient color design







An attractive color design which matches both the building and its environment is important for a balanced overall aesthetic impression. In this field, Brillux offers painters ideal solutions with a great variety of design aids including the Brillux Color Studios and the multiple prize-winning professional color planning system Brillux Scala.

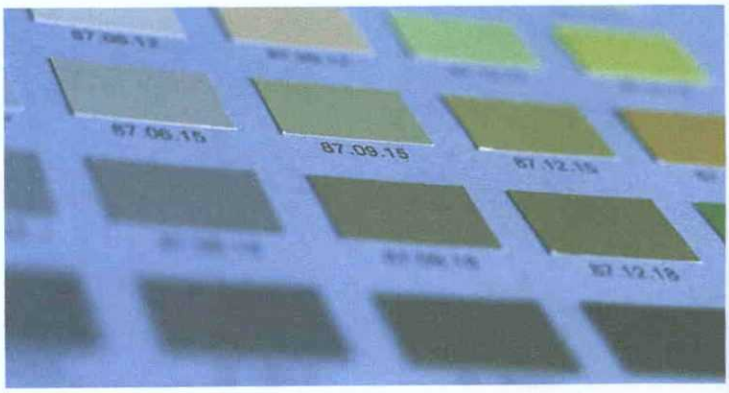
1,364 colors are ordered systematically by color shade, saturation and brightness. A wide range of colors is available for any coating task. The system provides the optimum alternative for stylistically assured color design down to the smallest detail. Matching Brillux products are available for each color shade. As it is fully integrated in the Brillux range, Brillux Scala guarantees maximum design reliability and better performance than non-manufacturer color systems.



Facade design with the Scala color fan »Facade Color Shades«

»Facade and Detail« offers a range of 375 colors specially developed for facade design. The major portion of the colors is available as silicone and silicate.

With this varied color selection, our product range supports both the correct color design of historic buildings as well as modern architectural designs.

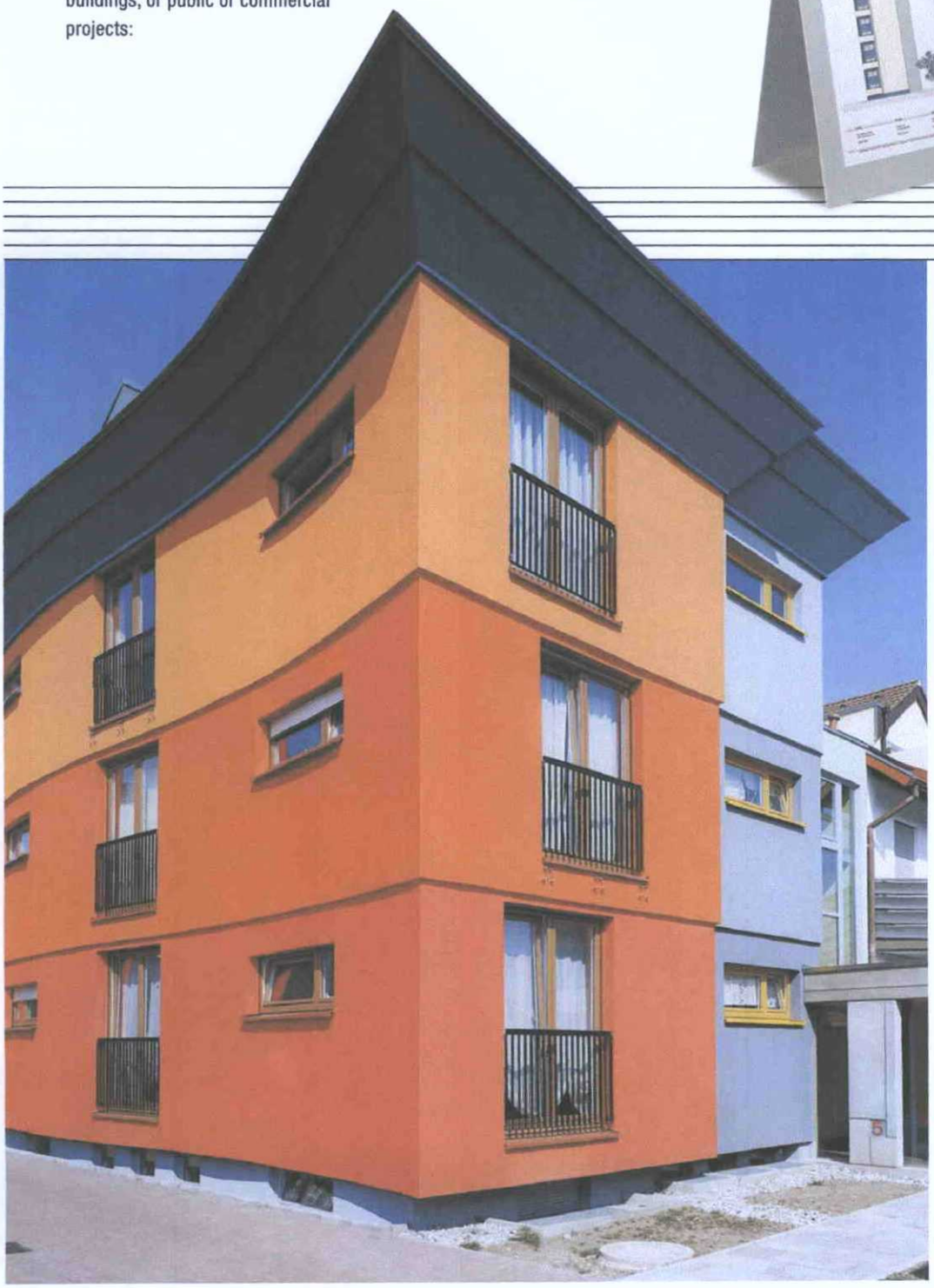


The Brillux Color Studios – your partners for professional color design

It is chiefly the color impression that makes the proportions of a building visible and lends the building its unique character. In the Brillux Color Studios our experts develop complete, stylistically assured individual color design concepts for any architectural style – from the opening requirement analysis to the final customer presentation. Whether for apartment houses, historic buildings, or public or commercial projects:

Our experienced color designers will work out customized design drafts for you using state-of-the-art computer software. The drafts are exact and accurate in every detail, so that your customer will know precisely how the facade will look before the first brushstroke is applied.





All facade paints at a glance

	Gloss grade	Color System	Protect	H_2O diffusion	Chalking resistance	Soiling resistance	Color variety	Whiteness	Filling capacity	Elasticity	Asbestos-fiber binding	On cracked substrates	On concrete	On cement chalk plaster	On chalk and insulation plaster	On old plaster PII
Acrylic Facade Paint 100	matt	yes	yes	++	+++	+++	+++	+++	+	-	+++		++	+++		++
Universal Facade Paint 903	dull matt	yes	-	++	++	++	++	++	++	-	-		+	+++		++
Mattosil Facade Paint 960	dull matt	yes	-	+++	++	++	++	+	++	-	-			+++		+++
Silicone Facade Paint 918	dull matt	yes	yes	+++	++	+++	++	++	+	-	+++	+++		+++	+++	+++
Silicate Facade Paint 1804	dull matt	yes	-	+++	+	+++	++	++	+	-	-			+++	+++	+++
Silicate Finish 1811	dull matt	yes	yes	+++	++	+++	++	+	+	-	-			+++	++	++
Top Elastic Facade Paint 380	silk matt	yes	yes	+	+++	+	+++	++	++	+++	-	+++	++	+++		++
Silicone Aerated Concrete Paint 449	dull matt	-	yes	+++	++	++	++	+	+++	-	-	+	+	+++		+
Plastic Facade Paint 999	matt	-	-	+	++	+	+	++	+	-	-		+	+++		+

+++	++	+	-	
very good	good	satisfactory	not applicable	not suitable

This information should be considered as a recommendation only.
The actual coating application plan depends on the individual project.

For more information, refer to the corresponding data sheets at www.brillux.com.

All plasters at a glance

Product	Type/ grain size	Art. No.	Color System	Protect	Consumption	Characteristics
Rausan	KR K2	3516	yes	yes	approx. 3,0 kg/m²	Organically bound plaster with grooved/scraped finish structure for exterior use, tested as top coat in the Brillux ETIC System
Rausan	KR K3	3517	yes	yes	approx. 3,7 kg/m²	
Rausan	KR K4	3518	yes	yes	approx. 5,2 kg/m²	
Rausan	R K2	3509	yes	yes	approx. 2,8 kg/m²	
Rausan	R K3	3510	yes	yes	approx. 3,5 kg/m²	
Rausan	R K4	3511	yes	yes	approx. 4,2 kg/m²	
Rausan Reveal Plaster	KR	3530	yes	yes	approx. 1,5 - 2,0 kg/m²	Organically bound plaster, ready for use, for decorative smooth plaster surfaces, for exterior use
Interior Decor ELF	KR K2	3612	yes	-	approx. 3,3 kg/m²	Organically bound plaster, grooved/scraped plaster finish, low emission, free from solvents and plasticizers, non-combustible A2 as per DIN 4102, for interior use
Interior Decor ELF	KR K3	3613	yes	-	approx. 4,2 kg/m²	
Interior Decor ELF	R K2	3601	yes	-	approx. 2,8 kg/m²	
Interior Decor ELF	R K3	3672	yes	-	approx. 3,5 kg/m²	
Silicone Plaster	KR K2	3649	yes	yes	approx. 3,2 kg/m²	Facade plaster with a silicone resin base, grooved/ scraped plaster finish, highly water-repellent, highly diffusible, weather-resistant, tested as a top coat in the Brillux ETICS system
Silicone Plaster	KR K3	3650	yes	yes	approx. 4,0 kg/m²	
Silcosil	KR K2	3674	yes	yes	approx. 3,0 kg/m²	Organically bound plaster, for exterior use only, silicone-reinforced, tested as a top coat in the Brillux ETIC System
Silcosil	KR K3	3675	yes	yes	approx. 3,7 kg/m²	
Silicate Plaster	KR K2	3631	yes	yes	approx. 3,2 kg/m²	Mineral decor plaster, grooved/scraped plaster finish with a silicate base for exterior use only, high adhesion thanks to silicification with substrate, tested as a top coat in the Brillux ETIC System
Silicate Plaster	KR K3	3641	yes	yes	approx. 4,0 kg/m²	
Silicate spray Plaster	-	3638		yes	approx. 2,5 kg/m²	Mineral decor plaster with a silicate base for exterior use, high adhesion thanks to silicification with substrate, highly diffusible
Light Mineral Plaster	KR K2	3664		-	approx. 2,3 - 2,5 kg/m²	Plaster mortar group P II, highly adhesive on mineral substrates, highly water vapor diffusible, tested as a top coat in the Brillux ETIC System
Light Mineral Plaster	KR K3	3622		-	approx. 2,7 - 2,9 kg/m²	
Light Mineral Plaster	R K3	3621		-	approx. 2,2 - 2,4 kg/m²	
Modeling Plaster, exterior	-	919	Tinted material can be produced in the factory	yes	approx. 1,5 - 3,5 kg/m²	Organically bound plaster, various structuring options, for exterior use
Modeling Plaster, interior	-	3637		-	approx. 1,5 - 3,5 kg/m²	Organically bound plaster, various structuring options, for interior use

All plasters are available in standard 25 kg. sacks in the color white.
All data on consumption are approximate estimates.
Please determine exact consumption by performing a test application on the object to be coated.

For more information, refer to the corresponding data sheets at www.brillux.com.