

Multi-Protect 800

Silk-matt, highly weather-resistant methacrylate resin paint,
for concrete and metallic substrates, for outdoors



Color System Basecode



Field of application

For decorative and protective coatings on facades and facade components made of, for example, concrete, primed iron/steel, galvanized steel, coil coating, aluminum (bare metal), coatable plastic profiles (in accordance with BFS Leaflet No. 22), especially for use as a carbonization-inhibiting coating in the Brillux concrete protection system on new, old, or repaired concrete components. Particularly suitable for structured exposed concrete to maintain the formwork texture.

Properties

- Solvent-based
- Highly weather-resistant
- High color fastness
- Quick-drying
- With good adhesion
- Alkali-resistant
- Easy to apply
- Water-vapor-permeable
- Protects concrete surfaces from damaging gases, e.g., carbon dioxide and sulfur dioxide
- Is optionally available in "Protect Quality" (film protection against an algal and fungal attack on the coating)

Material description

Standard color shade	0095 white. Many additional color shades can be mixed with the Brillux Color System.
Degree of gloss	Silk matt
Base material	Acrylate resin coating, solvent-containing
VOC	EU limit value for this product (Cat. A/c): 430 g/l (2010). This product contains max. 430 g/l VOC.

Material description

Flash point	+47 °C
Density	Approx. 1.2 g/cm ³
Packaging	0095 White: 3 l, 10 l Color System: 3 l, 10 l

Application

Dilution	Do not dilute because this will result in the EU limit value in accordance with the VOC Directive being exceeded.
Tinting	All color shades can be mixed with one another.
Compatibility	Do not mix with other materials.
Application	Multi-Protect 800 can be applied using brush and roller application.
Consumption	Approx. 150-200 ml/m ² per layer. Approx. 350 ml/m ² results in approx. 100 µm dry layer thickness. On metallic surfaces, approx. 120–140 ml/m ² per layer. Determine exact consumption by means of a test application on the object to be coated.
Application temperature	Do not apply if air or object temperature is below +5 °C. Favorable at +10 °C up to +20 °C air and object temperature.
Cleaning tools	Clean with Special Synthetic Resin Thinner 915 or Quick-acting Brush Cleaner 111 immediately after use.

Requirements for concrete protection

	Water absorption (w-rate)	Diffusion resistance (s_d rate) in comparison to water vapor	Diffusion resistance (s_d rate) in comparison to carbon dioxide
Minimum requirements for concrete protection coatings	≤ 0.5 kg/(m ² x h ^{0.5})	≤ 4.0 m	≥ 50 m
2x Multi-Protect 800 (dry layer thickness 100 µm)	0.002 kg/(m ² x h ^{0.5})	1.45 m	220 m

The requirements placed on materials for concrete protection are reliably met by a system build-up using Multi-Protect 800.

Drying (+20°C, 65 % r. h.)

Dust dry after approx. 30 minutes. Can be coated with the same product after approximately 12 hours. Complete curing requires several days depending on the layer thickness and temperature. Allow for longer drying time if the temperature is lower and/or the humidity is higher.

Storage

Store in a cool and dry place. Reseal opened containers tightly.

Declaration

Product code BSL50
Comply with the specifications in the current Safety Data Sheet.

Coating build-up

Substrate preparation The substrate must be solid, dry, clean, load-bearing, and free from efflorescences, sintered layers, separating agents, corrosion-promoting components, or other intermediate layers affecting the adhesion. Remove fine-grained layers on concrete surfaces mechanically or by means of pressure washing. Inspect factory coatings as well as intact old coatings for their suitability, load-bearing capacity, and adhesive properties. Thoroughly remove defective and unsuitable coatings and dispose of them in accordance with the applicable regulations. Thoroughly sand and wash down intact old coatings and smooth, dense substrates. Clean surfaces infested with fungi and algae thoroughly and then treat them with Universal Disinfectant 542 *. (*Use biocide products with care. Always read the label and product information before use.) Treat replastered areas with a fluorine primer in a technically correct manner. Repair damaged concrete surfaces with the Brillux Concrete Protection System. Degrease and derust iron. In the event of a high degree of exposure or exterior application, derust using abrasive blasting to achieve surface preparation grade Sa 2½ in accordance with EN ISO 12 944, part 4. Thoroughly remove mill scale and layers of welding scale. Prepare zinc, galvanized surfaces by cleaning them with Universal Cleaner 1032 or with ammonia alkaline washing fluid (in accordance with BFS Leaflet No. 5, Paragraph 3.3). Clean and pretreat bare aluminum with, e.g., Universal Cleaner 1032 in accordance with BFS Leaflet No. 6. Prepare plastics in accordance with BFS Leaflet No. 22. Hazardous particles and vapors may be released when reworking or removing old paint coats, e.g., as a result of sanding, heat gun paint removal etc. Perform such work only in well ventilated areas and ensure the use of appropriate protective equipment (including respiratory protective equipment) as necessary. For coatings and substrates where there is a possibility of peeling due to dissolution, e.g., on oil and synthetic enamel paint coatings, we recommend performing a test application. See also VOB Part C, DIN 18363, Section 3.

Opaque coatings in the concrete protection system

Substrates	Prime coating	Intermediate coat	Top coat
Untreated, intact, absorbent concrete, washed-out concrete ¹⁾	Deep Penetrating Primer 545, diluted in accordance with the absorbency ⁴⁾	Multi-Protect 800	Multi-Protect 800
With PCC Fine Filler 804 on partially filled concrete ²⁾			
With Facade Smoothing Filler F 1539 on partially or full-surface filled concrete ²⁾			
With PCC Fine Filler 804 on full-surface filled concrete	Not applicable		
With Concrete Pore Filler 782 on partially filled concrete ³⁾			
Horizontal, non-accessible concrete surfaces with sufficient surface inclination, e.g., upper edges of parapets	Prime twice with 2K-EP Varioprimer 865 ⁵⁾		

¹⁾ For dense, non-absorbent or low-absorbent concrete, e.g., ready-mixed concrete test applications, lay with 2K-Aqua Epoxy Primer 2373.

²⁾ In the case of partial filling, the primer must always be applied to the entire surface.

³⁾ The primer is applied before filling. Follow the instructions in Data Sheet 782.

⁴⁾ Glossy areas must be avoided.

⁵⁾ Scatter quartz sand onto the still wet, second prime coat. For further details, refer to the "Notes".

Simple facade coating on plaster and facade claddings

Substrates ¹⁾	Prime coating	Intermediate coat	Top coat
Untreated, intact, absorbent cement plaster (CS II and CS III, compressive strength >2 N/mm²)	Deep Penetrating Primer 545, diluted depending on absorbency ⁴⁾	Multi-Protect 800	Multi-Protect 800
Intact polymer resin coating	Not applicable		
Intact Glasal® or Fulgural panels® ^{2) 3)}	2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Untreated, asbestos-free fiber cement boards and cement-bonded particle boards ²⁾			

¹⁾ To coat asbestos-cement facade claddings, follow the instructions in the "Coating systems for asbestos-cement facade claddings 2asb" Data Sheet.

²⁾ Generously apply the primer to all surfaces, including the board edges.

³⁾ Glasal® and Fulgural® are registered trademarks of Eternit AG and Fulgurit Baustoffe GmbH.

⁴⁾ Glossy areas must be avoided.

Coats on metallic substrates, in exterior areas

Substrates	Prime coat	Intermediate coat	Top coat
Iron/steel, untreated	Depending on the requirements and selection, 2x with Metal Primer 850 or Multi-Primer 227	Multi-Protect 800	Multi-Protect 800
Iron/steel, with intact prime coat	First coat damaged areas and then the entire area with Metal Primer 850 or Multi-Primer 227		
Iron/steel, with intact, load-bearing old coating	If required, coat damaged areas 2x with Metal Primer 850 or Multi-Primer 227		
Zinc, zinc-coated components, untreated	Depending on the requirements and selection, 2K-Aqua EP Primer 2373, 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Bare aluminum			
Rigid PVC etc. untreated	2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Coil Coating, powder coatings ¹⁾			

¹⁾ Check the suitability in individual cases and if applicable, perform test applications on Coil Coating and powder coatings.

Notes

Color shades on concrete

In order to avoid temperature stress, the coatings should only be applied on reinforced concrete in light to medium color shades. This is particularly applicable for concrete surfaces that are already damaged.

No adhesion to salt efflorescences

No guarantee can be given for permanent adhesion to surfaces with salt efflorescences.

Lime efflorescence on concrete

There is a risk of lime efflorescence on concrete facade surfaces. An intact coating film prevents water penetration, and minimizes this risk. In order to achieve an intact coating, existing pores, craters, and honeycombing must be filled in advance by, e.g., filling with Concrete Pore Filler 782. Crack-bridging coating systems using, e.g., Concrete Finish 839 or Concrete Elast OS 862 must be used on existing cracks.

Avoid contact with plasticizers

The coating is dissolved by plasticizers or plasticizer-containing materials.

Coating protection

Do not apply in direct sunlight, to substrates that have heated up, in strong wind, rain, etc. If necessary, take protective measures.

Implementation in brilliant and intense color shades

Brilliant, pure intense color shades, e.g., in the yellow, orange, red, magenta, and yellow green ranges have a lower hiding power as a result of the pigments used. For critical color shades, we recommend applying a full-covering base coat in these areas in the corresponding base color shade (Basecode). In addition to the standard coating buildup, additional coats may be required.

As "Protect Quality"

The quality marked with "Protect" is provided with film preservation against algal and fungal attacks and should therefore only be used on exterior surfaces. The preservatives used minimize and/or delay the risk of algal and fungal attack. For facade paints equipped with film preservation, we recommend applying at least two coats in adequate layer thickness. With the current state of the art permanent prevention of algal and fungal attack cannot be guaranteed.

Coating of horizontal, non-accessible surfaces

To thoroughly protect horizontal, non-accessible coated and absorbent surfaces such as concrete, e.g., balustrades, prime twice with 2K-EP Varioprimer 865. Thin the first prime coat in accordance with the substrate absorption up to max. 5% with EP Thinner 854. Additionally, scatter Quartz Sand 1526 onto the second, still-wet prime coat. Wait at least 12 hours, but not more than 24 hours between the individual prime coatings.

Staining due to standing water

Water stains will form in the coating on surfaces with an inadequate drainage slope. These do not disappear when dry. This is typical of the materials and does not represent a defect.

Cleaning and care

To clean painted surfaces, use a clean, soft cloth, dry or damp, without abrasive, solvent-based or caustic agents. Clean without applying excessive pressure (do not polish the surfaces). Perform a test cleaning beforehand in an inconspicuous area. Only clean surfaces that have completely dried and have hardened.

Constructive protection

Roof overhangs and sufficiently dimensioned covers extend the service life of facade coatings. Missing drip edges or excessively small drip edge separations can (according to BFS Leaflet No. 9, Section I) lead to visible streak marks and soiling on facades, parapets, etc., in a relatively short time.

Further information

Follow the instructions on the data sheets of the products used.

This Data Sheet is based on extensive development work and years of practical experience. The translation corresponds to the current German version, in compliance with the German laws, regulations, standards and guidelines. Its content does not constitute a contractual legal relationship. The user/buyer is not released from the responsibility of checking our products to ensure they are suitable for the intended application. In addition, our general terms of business apply.

When a new version of this Data Sheet with updated information is published, the previous version no longer applies. The current version is available on our website.

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