

2K-Aqua Matt Enamel 2390



water-based, two-component, highly resistant to mechanical and chemical stress, AgBB certified, for interior and exterior use



Color System

Basecode

Field of application

For especially resistant interior and exterior paints (colorless only indoors). On, for example, primed steel components and structures, primed zinc and galvanized steel components, as well as coatable plastics (BFS Leaflet No. 22). May also be used indoors on wooden materials, e.g. MDF boards or melamine resin panels, and as a colorless overcoat for wooden handrails and also as a wall coating when combined with wall nonwovens.

Properties

- Water-based
- Highly resistant to mechanical and chemical stress
- Chemical resistance according to test certificate
- Disinfectant-resistant according to test certificate
- Excellent adhesion
- Very resistant to light and weather
- Very low odor
- Rapid curing
- Complies with EN 71-3 Safety of toys, resistant to saliva and perspiration
- Tested in accordance with the requirements of the AgBB scheme and in accordance with the test certificate for use with indirect contact with foodstuffs
- Decontaminable in accordance with DIN 25415 according to test certificate no. 09-2018

Material description

Colors 0095 white
0100 colorless (only for interior use)
Additional color shades from the Brillux Color System.

Gloss grade matt

Base material PUR acrylic varnish, two component

Material description

VOC	EU limit for this product (Cat. A/j: 140 g/l (2010)). This product contains max. 100 g/l VOC. The specified VOC value refers to the ready-to-use mixture of base paint and hardener.
Flash point	Not applicable
Density	Approx. 1.05–1.3 g/cm ³
Packaging	0095 white: 875 ml and 3.5 l 0100 875 ml colorless: 875 ml and 3.5 l Color System: (Base enamel and hardener are supplied separately)

Use

Mixing ratio	7 parts by volume of 2K-Aqua Matt Enamel 2390 to 1 part by volume of 2K-Aqua Hardener 2380. This corresponds to approx. 100 g of base paint : 16 g of hardener (for colorless paint) and approx. 100 g of base paint : 13 g of hardener (for colored paint). The container sizes correspond to this mixing ratio. Make sure to mix the two components thoroughly. Do not tightly close containers with a mixture of base paint and hardener. Such mixtures continue to react; this produces carbon dioxide and could cause the container to burst.
Mixing	Mix base enamel and hardener in the specified mixing ratio shortly before application. Then pour the mixture into another clean container and stir again thoroughly. Avoid inclusion of air during mixing. Then allow the mixture to pre-react for about 10 minutes. Do not mix freshly mixed material with residual material. You must comply with the limited time for use (pot life).
Thinning	No thinning.
Tinting	All colors can be mixed with one another without limitations.
Compatibility	Can only be mixed with similar materials and those stipulated in this data sheet.
Application	2K-Aqua Matt Enamel 2390 can be applied using brushing, rolling and AirCoat spraying methods. In roller application, preferably uniformly applied with the Microfiber Paint Roller 1221 and rerolled with the Hydro Paint Rollers 1288. If application by brush is preferred, paint brushes with synthetic bristles, such as the Uni-Plus Paint Brush round 1204 are suitable for application. During edging work with a paint brush, carefully reroll the surfaces to even out the coat. With high material accumulations, e.g., with runners and "fat edges", surface defects can occur in the form of outgassing. Avoid this at all costs. A thorough intermediate sanding between application steps is required when creating a "paint-on-paint" build-up. More information on spray application is provided in the "Spray data" table.
Pot life (at +20°C)	Approx. 2 hours. Higher temperatures considerably reduce the pot life. After the pot life has ended, do not dilute the material again or continue to use it.
Consumption	Approx. 110–130 ml/m ² per layer. Determine the exact consumption by means of a test application on the object to be coated.

Use

Application temperature Best at +15°C. Do not apply below +8°C and above +25°C nor in direct sunlight, at high humidity ($\geq 80\%$), during rainfall, fog, cases of trapped moisture, strong wind, or to very warm substrates.

Tool cleaning Clean tools immediately after use with water and Universal Cleaner 1032. Clean spray devices very thoroughly.

Spray data

Spray system	Nozzle	Spray angle	Supply air/air quantity	Material pressure/material quantity	Thinning	Cross-spraying
AirCoat ¹⁾	0.009–0.011 inch	40°	3–4 bar (air)	120–150 bar	unthinned	1

The data is based on substrate and ambient temperatures of +20°C.

If work is interrupted for more than 45 minutes, an intermediate cleaning of the spray system with water and Universal Cleaner 1032 is required.

¹⁾ Information related to the use of AirCoat nozzles 9/40 or 11/40 (blue air cap).

Drying (+20°C, 65% relative humidity)

Dust dry after approx. 2 hours. Can be sanded and recoated after approx. 8 hours. Fully cured after approx. 7 days. Allow longer drying times at lower temperatures and/or higher air humidity.

Storage

Cool, dry, and frost-free between +5°C and +35°C in a well-ventilated area. Reseal opened, unmixed containers tightly.

Declaration

Product code PU30.
Comply with the specifications in the current safety data sheet.

Coating build-up

Substrate preparation The substrate must be solid, dry, clean, with good adhesiveness, load-bearing and free from separating agents. Degrease and derust iron. 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 bare metal aluminum with Universal Cleaner 1032 and a nonwoven abrasive, then rinse thoroughly with warm water. When treating aluminum, follow the instructions in BFS Leaflet No. 6. Prepare plastics in accordance with BFS Leaflet No. 22. Check the suitability, load-bearing capacity and adhesive properties of existing coatings. For substrates on which there is a possibility of dissolving or peeling, for example oil and lacquer paints, we recommend applying a test coat. Remove defective and unsuitable coatings completely and dispose of them in accordance with the applicable regulations. Thoroughly sand intact old coatings. Hazardous particles and vapors may be released while reworking or removing old paint coats, e.g. as a result of sanding, paint removal by heat gun, etc. Perform such work in well ventilated areas only and ensure the use of appropriate protective equipment (including respiratory protective equipment) as required. Prepare the substrate in accordance with the specific requirements. See also VOB Part C, DIN 18363, Section 3.

Coating build-up

Exterior coats on iron/steel, zinc, galvanized steel, aluminum and plastic

Substrates	Prime coat	Intermediate coat ¹⁾	Top coat
Exterior iron/steel, untreated	2x 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864	If necessary, 2K-Aqua Matt Enamel 2390	2K-Aqua Matt Enamel 2390
Exterior iron/steel, factory-primed	Treat defective areas with 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864 and the whole surface with 2K-Aqua EP Primer 2373, 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Zinc, galvanized components, exterior, untreated	2x 2K-Aqua EP Primer 2373, 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Aluminum, exterior, bare metal, untreated	2K-Aqua EP Primer 2373, 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Coatable plastic, exterior, untreated	2K-Aqua Matt Enamel 2390, 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Coil coating, powder coating	2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Intact, load-bearing, two-component coatings, exterior	2K-Aqua EP Primer 2373, 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		

¹⁾ A thorough intermediate sanding with a non-woven abrasive pad is required between application steps when creating a “paint-on-paint” build-up.

Interior coats on iron/steel, zinc, galvanized steel, aluminum and plastic

Substrates	Prime coat	Intermediate coat ²⁾	Top coat
Iron/steel, interior, untreated	2x 2K-Aqua EP Primer 2373 ¹⁾ or 2K-Aqua EP-Spray Primer 2375 ¹⁾ , alternatively 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864	If necessary, 2K-Aqua Matt Enamel 2390	2K-Aqua Matt Enamel 2390
Iron/steel, interior, factory-primed	Treat defective areas and the whole surface with 2K-Aqua EP Primer 2373 ¹⁾ or 2K-Aqua EP-Spray Primer 2375 ¹⁾ , alternatively 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Untreated zinc, galvanized components, interior	2x 2K-Aqua EP Primer 2373 or 2K-Aqua EP Spray Primer 2375, alternatively 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Aluminum, interior, bare metal, untreated	2K-Aqua EP Primer 2373 or 2K-Aqua EP Spray Primer 2375, alternatively 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Coatable plastics, interior, untreated	2K-Aqua Matt Enamel 2390, 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Coil coating, powder coating	2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Intact, load-bearing, two-component coatings, interior	2K-Aqua EP Primer 2373 or 2K-Aqua EP Spray Primer 2375, alternatively 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Factory hydro dip prime coating, e.g. steel frames or factory powder prime coating, e.g. fire doors	Treat defective areas with 2K-Aqua EP Primer 2373 or 2K-Aqua EP Spray Primer 2375, alternatively 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864	2K-Aqua Matt Enamel 2390	

¹⁾ Only for application in areas meeting specifications for corrosion category C1 (irrelevant) in accordance with EN ISO 12944.

²⁾ A thorough intermediate sanding with a non-woven abrasive pad is required between application steps when creating a "paint-on-paint" build-up.

Interior coatings on wooden-based materials

Substrates	Prime coat	Intermediate coat ¹⁾	Top coat
Wood-composite boards, interior, e.g. MDF boards or melamine resin panels	Depending on the requirements and selection with 2K-Aqua EP Primer 2373, 2K-Aqua EP Spray Primer 2375, 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864	If necessary, 2K-Aqua Matt Enamel 2390	2K-Aqua Matt Enamel 2390
Wooden handrails, interior	-	2K-Aqua Matt Enamel 2390, colorless	2K-Aqua Matt Enamel 2390, colorless

¹⁾ A thorough intermediate sanding with a non-woven abrasive pad is required between application steps when creating a “paint-on-paint” build-up.

Interior coats on wall surfaces ¹⁾

Substrates ²⁾	Prime coat ³⁾	Intermediate coat ⁴⁾	Top coat
Glued Xtra Nonwoven 1725	2K-Aqua EP Primer 2373, 3% diluted	2K-Aqua Matt Enamel 2390	2K-Aqua Matt Enamel 2390
Glued CreaGlas Nonwoven VG 4101 Magnetic	Two prime coats, with 2K-Aqua EP Primer 2373, 3% diluted		

¹⁾ For large-surface application and to achieve the optimum surface results, we recommend preferably processing with spray application.

²⁾ Read and follow the instructions in the data sheet for the gluing the wall partitions to be used.

³⁾ Apply a thin layer of Latex Plastic ELF 904 as required to pore off prior to applying the prime coat and achieve a very smooth, even surface.

⁴⁾ Before continuing with the coating build-up, perform a thorough intermediate sanding with Iridium, 125 mm Ø, 1439 sanding pads, grain size 220 and additionally roughen with the Sanding and Cleaning Pad 3694, green. Remove any dust from surfaces with a microfiber cloth.

Notes

Proper ventilation Ensure proper ventilation during application and drying indoors.

Sanding surfaces Lightly sanding the surfaces is always required when creating a “paint-on-paint” build-up with 2K-Aqua Matt Enamel 2390.

Traces of substrate unevenness Even when the substrate is carefully prepared and filled to Q4 quality level, depending on the angle and quality of light incidence, unevenness of the substrate might be visible.

Do not use on horizontal surfaces exposed to moisture Do not use on horizontal surfaces exposed to moisture.

Implementation in brilliant and intense color shades Brilliant, pure intense color shades, e.g. in the yellow, orange, red, magenta and yellow-green range have a low hiding power due to the nature of their pigments. When using critical color shades in these color ranges, we recommend applying a full-covering prime coat in the corresponding base color (Basecode). In addition to the standard coating buildup, additional coats may be required.

Notes

Cleaning and maintenance For cleaning the 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 cured.

Further information Follow the instructions in the data sheets of the products used.

Remark

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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