Data Sheet

Ratiospray 2170

Water-based, all-round spray paint, high color stability, silk matt, for interior and exterior use

Field of application

For large-surface coatings in spray application, in both exterior and interior areas. Preferably for efficient paint coating of industrial and commercial buildings on e.g., trapezoidal sheet metal facades or sandwich panels, as well as interior trapezoidal sheet metal ceilings. Particularly suited for use as a renovation coating on, e.g., Coil Coating, non-ferrous metals, and old coatings.

Properties

- Water-based
- Low odor
- For interior and exterior use
- Acrylic resin base
- Quick-drying
- Block-resistant
- Very good adhesion and hiding power
- For airless and AirCoat spray methods
- Very high color fastness
- Safe application, thanks to its high stability
- Very good surface appearance with low soiling tendency
- Is optionally available for exterior use in Protect quality (film protection against algal and fungal attack on the coating)

Material description

Color shade
0095 white
Additional color shades available from the Brillux Color System

Degree of gloss
Silk matt

Base material
Acrylate copolymer emulsion paint

VOC
EU limit value for this product (Cat. A/b): 100 g/l (2010).
This product contains max. 100 g/l VOC.

Brillux ..more than paint

Material description

Density Approx. 1.15-1.25 g/cm³

Packaging Standard: 10 l
Color System: 10 l

Use

Thinning Ready to spray. Only apply undiluted.

Tinting All color shades can be mixed with one another.

Compatibility Do not mix with other types of materials.

Application Apply Ratiospray 2170 undiluted, using Airless or AirCoat spray application. Data on spray application has been provided in the following "Spray Data" table.

Consumption Approx. 140–170 ml/m² 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.

Cleaning tools Clean tools immediately after use with water. Remove surface-dried paint residue, for example, on the spray nozzle and air cap, using Universal Cleaner 1032, or stubborn stains with Special Synthetic Resin Thinner 915.

Spray data

Spray system	Nozzle	Spray angle	Supply air/air quantity	Material pressure/material quantity	Thinning	Cross-spraying
AirCoat [1)]	0.011 inch	40°	1.0-1.5 bar (air)	100-120 bar	Undiluted	1–1½
Airless [2)]	0.010 inch	40°	–	120-140 bar	Undiluted	1–1½

The data is based on substrate and ambient temperatures of +20 °C
[1)] Information relating to the use of 09/40 AirCoat nozzles (blue air cap) e.g. for large-surface applications and 11/50 nozzles with otherwise unchanged settings.
[2)] The information is based on the use of FineFinish nozzles 410 (TradeTip 3 – violet).

Drying (+20 °C, 65 % relative humidity)

Dust dry after about 1 hours. Recoatable after about 12 hours.
Allow for longer drying time if the temperature is lower and/or the humidity is higher.

Storage

Store in a cool, dry and frost-free place. Reseal opened containers tightly. Only recycle completely empty containers. Dispose of liquid material residue at a collection point for old varnishes/old paints.

Declaration

Product code BSW30
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. Check existing coatings for their suitability, load-bearing capacity, and adhesive properties. Remove defective and unsuitable coatings completely, and dispose of them in accordance with the applicable regulations. Sand intact coatings thoroughly. Hazardous particles and vapors may be released when reworking or removing old paint coats, e.g. as a result of sanding, paint removal by heat gun, etc. Perform such work only in well ventilated areas, and ensure the use of appropriate protective equipment (including respiratory protective equipment) as required. Pretreat, prime and apply the intermediate coat to the substrate, as required. Also see VOB Part C, DIN 18363, Paragraph 3.

Exterior coatings on zinc, zinc-coated steel, aluminum, rigid PVC

Substrates	Priming	Intermediate coat	Top coat
Zinc, zinc-coated components, untreated	2K-Epoxi Varioprimer S 864 or 2K-Epoxi Varioprimer 865	If necessary, Ratiospray 2170	Ratiospray 2170
Aluminum, untreated, bare metal			
Coil Coating, powder coating and two-component coatings [1)]			
Rigid PVC, untreated			

[1)] The suitability of Coil Coatings is to be evaluated on site on a case-by-case basis.

Coating build-up

Interior coatings on zinc, zinc-coated steel, aluminum, rigid PVC

Substrates	Primer [3]	Intermediate coat	Top coat
Zinc, zinc-coated components, untreated, interior	Depending on the requirements and selection, with Lacryl Universal Primer 246, Hydro-PU-Spray Filler 2120, 2K-Aqua Epoxy Spray Primer 2375, 2K-Aqua Epoxy Primer 2373, 2K-Epoxi Varioprimer S 864 or 2K-Epoxi Varioprimer 865	If necessary, Ratiospray 2170	Ratiospray 2170
Aluminum, untreated, interior, bare metal			
Coil Coating, powder coating and two-component coatings [1]	2K-Epoxi Varioprimer S 864 or 2K-Epoxi Varioprimer 865		
Rigid PVC, untreated, interior	Depending on the requirements and selection, with Lacryl Universal Primer 246, Hydro-PU Spray Filler 2120, 2K-Epoxi Varioprimer S 864 or 2K-Epoxi Varioprimer 865		
Iron/steel, untreated	2x Metal Primer 850 or Multi-Primer 227		
intact, load-bearing, single-component coatings, interior	Lacryl Universal Primer 246 or Hydro-PU-Spray Filler 2120 [2]		

[1] The suitability of Coil Coatings is to be evaluated on site on a case-by-case basis.
[2] Repair defects before priming with Lacryl Universal Primer 246, Hydro-PU-Spray Filler 2120, 2K-Aqua Epoxy Primer 2373, 2K-Epoxi Varioprimer S 864 or 2K-Epoxi Varioprimer 865.
[3] Depending on the individual requirements in interior areas you may also be able to use elements, such as Enamel Filler 518 to fill surfaces after having completed priming.

Interior coating on wood

Substrates	Primer [2] [3]	Intermediate coat	Top coat
Limited dimensionally stable and dimensionally inaccurate wooden components, wood-based materials, untreated	Lacryl Universal Primer 246 or Hydro-PU-Spray Filler 2120 Isoprimer 243	If required Ratiospray 2170	Ratiospray 2170
Limited dimensionally stable and dimensionally inaccurate wooden components, wood-based materials, intact old coating	Lacryl Universal Primer 246 or Hydro-PU-Spray Filler 2120 Isoprimer 243 [1]		

[1] Pretreat damaged areas prior to the prime coat with Lacryl Universal Primer 246, Isoprimer 243 or Hydro-PU-XSpray Isoprimer 2243.
[2] Apply the prime coat with Isoprimer 243 for white or light-colored coatings to prevent water-soluble substances from penetrating through. We recommend using two coats of primer on wood that is very rich in active substances. As an alternative to Isoprimer 243, the prime coat can also be applied using Impredur Primer 835.
[3] Depending on the individual requirements in interior areas you may also be able to use elements, such as Enamel Filler 518 to fill surfaces after having completed priming.

Notes

Sand the substrates	We recommend intermediate sanding between the individual work steps. The surfaces must be sanded down to ensure a "paint-on-paint" structure.
Avoid contact with plasticizers	Do not bring the paint coat into contact with plasticized plastic materials e.g. sealing profiles/sealants. Use profiles that do not contain plasticizer.
Avoid "paint-on-paint contacts"	Water-based enamel paints exhibit thermoplastic behavior. As a consequence, paint-on-paint contacts, e.g. due to stacking, must be avoided.
Implementation in brilliant and intense color shades	Brilliant, pure intense color shades, e.g., in the yellow, orange, red, magenta and yellow green areas 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.
Abrasion in the event of mechanical stress	Pigment abrasion may occur on the coating surface for intense and dark color shades in the cases involving mechanical stress. This corresponds to the state of the art for silk matt enamel paints and does not justify a complaint.
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. Version I

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