Data Sheet

Hydro-PU-Spray Metallic Finish 2177

Metallic effect varnish, water-based, low odor, spray quality, for interior use

Entspricht EN 71-3
Sicherheit von Spielzeug
Speichel- und schweißecht

Field of application

Metallic effect finish on colored acrylic resin enamel paint coatings in interior areas. Particularly in system build-ups with Hydro-PU-Spray Silk Matt Enamel 2188 on color enameled components such as doors, frames, wooden paneling, wall surfaces, etc.

Properties

- Water-based, low-odor
- For interior use
- For airless and AirCoat spray methods
- High stability
- Fast-drying
- Excellent flow
- Block-resistant
- Extremely low tendency to yellowing
- Hardwearing and cleanable
- Easy to apply
- Meets EN 71-3 Safety of toys, resistance to saliva and perspiration
- complies with the requirements of the Committee for the Health-related Evaluation of Building Products (AgBB)

Material description

Color shade Transparent, with metal pigments
To achieve metallic color shades as close as possible to known color systems, e.g., Scala and RAL, as well as DB color shades, we recommend using a coordinated base color shade with e.g., Hydro-PU Spray Silk Matt Enamel 2188.

Degree of gloss Silk gloss

Base material Acrylate copolymer emulsion with metallic effect pigments

VOC EU limit value for this product (Cat. A/d): 130 g/l (2010).
This product contains max. 100 g/l VOC.

Density Approx. 1.0–1.05 g/cm³

Packaging 5 l

Brillux ..more than paint

Use

Thinning Ready to spray. Only apply undiluted.

Tinting Do not tint.

Compatibility Do not mix with other types of material.

Application Stir thoroughly before use. Hydro-PU-Spray Metallic Finish 2177 should be used unthinned in AirCoat or Airless Spray application. All data on spray application has been provided in the following "Spray Data" table. Before application, roughen the surfaces thoroughly with the Nonwoven Abrasive Tool Pad, Very Fine 3244. Thoroughly dust the surfaces with a microfiber cloth.

Consumption Approx. 170–200 ml/m² per application
Determine the 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.

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

Spray data

Spray system	Nozzle	Material temperature	Supply air	Material pressure	Thinning	Cross-spraying
AirCoat [1)]	0.013 inch [1)]	–	Approx. 2.0 bar	100 bar	Undiluted	1 ½
Airless [1)]	0.012 inch [2)]	–	–	100 bar	Undiluted	1

The data is based on substrate and ambient temperatures of +20 °C
[1)] The plug in filter, green type – coarse (item no.: 3335.0001.0003) is to be used for micaceous iron.
[2)] The information is based on the use of AirCoat nozzles 13/40 (blue air cap)
[3)] The information is based on the use of FineFinish nozzles 412 (TradeTip 3 – violet)

Drying (+20°C, 65% relative humidity)

Dust dry after approx. 1 hour.
Fully stressable after curing (approx. after 7 days).
Allow longer drying times at lower temperatures and/or higher air humidity.

Storage

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

Declaration

Note Contains preservatives
Do not inhale spray mist.

Product code BSW20
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. Sand intact coatings thoroughly. Also see VOB Part C, DIN 18363, Section 3.

Metallic effect coating on acrylic resin enamels

Substrates and system build-up		Top coat [6]
Intact, load-bearing paint coating with acrylic enamel paint, interior	With colored Hydro-PU paints, e.g. Hydro-PU-Spray Silk Matt Enamel 2188 and Hydro-PU-XSpray Silk Matt Enamel 2288, preferably in system build-up with 2K-Aqua Epoxy Spray Primer 2375 and Hydro PU XSpray Isoprimer 2243 [4] [5]	Hydro-PU-Spray Metallic Finish 2177
Intact wall coverings such as textured, nonwoven wallpaper and Relief 3490 [1]	With color Hydro-PU paints, e.g. Hydro-PU-Spray Silk Matt Enamel 2188, preferably in system build-up with 2K-Aqua Epoxy Spray Primer 2375 and Hydro PU XSpray Isoprimer 2243 [4] [5]	
Intact nonwoven wall coverings such as CreaGlas Nonwoven and Xtra Nonwoven 1725 [1] [2] [3]		

[1] For gluing, follow the instructions in the Data Sheet for the wall coverings used.
[2] To achieve a very smooth, even surface, fill the pores with a thin layer of Latex Plastic ELF 904 before applying the prime coat.
[3] Before proceeding with the further coating build-up, perform a thorough intermediate sanding with Sanding Pads RO/ETSC 125 Granat 1420, grain size P 220 and additional roughening with the Sanding and Cleaning Pad 3694, green. Thoroughly dust surfaces with a microfiber cloth.
[4] For the system build-up, preferably use the prime coats 2K-Aqua Epoxy Primer 2373, 2K-Aqua Epoxy Spray Primer 2375, Isoprimer 243, Hydro-PU XSpray Isoprimer 2243, 2K-Epoxi Varioprimer 865 or 2K-Epoxi Varioprimer S 864. Follow the instructions in the “Products for system build-up” note.
[5] We recommend implementing the entire system build-up in spray application. Before applying the top coat, roughen the surfaces thoroughly with the Nonwoven Abrasive Tool Pad, Very Fine 3244. Thoroughly dust surfaces with a microfiber cloth.
[6] For large-surface application, in particular on wall surfaces, spray wet in wet or divide and mask off the surface into smaller partial sections. Follow the instructions in the Uniformity of the surface” note.

Notes

Metallic effect impression

The metallic effect impression is clearly enhanced on dark color shades. On light background, a more subtle effect is achieved. Additional illumination of the surfaces highlights the metallic surface effect.

Surface uniformity

In contrast to industrial coating processes in completely enclosed installations, material-based striations and cloud formations, overlaps, and lap marks are often unavoidable. For artisan and construction-site-dependent implementation of effect coatings, these irregularities in surface appearance are to be accepted. To assess the overall appearance, we recommend preparing test areas in the selected color shade beforehand and informing the client of the material characteristics. Also refer to BFS Leaflet No. 25, appendix A.3.

Notes

Products for system build-up	Due to its blocking properties, the prime coat, in system build-up with 2K-Aqua Epoxy Spray Primer 2375 or 2K-Aqua Epoxy Primer 2373, as well as Hydro-PU-XSpray Isoprimer 2243 or Isoprimer 243, 2K-Epoxi Varioprimer 865 and 2K-Epoxi Varioprimer S 864, provides maximum reliability even in critical conditions. When using Hydro-PU-Spray Filler 2120 and Hydro PU XSpray Filler 2220, surface defects may occur under unfavorable conditions (e.g. higher layer thicknesses, short reworking intervals, and poor drying conditions).
Contiguous areas	Only coat contiguous areas with material from the same batch or production lot.
Excluded field of application	Not for painting chairs, shelves, table tops, etc., as well as components exposed to extreme mechanical stress.
Avoid contact with plasticizers	Do not bring the paint coat into contact with plasticized plastic materials, e.g. sealing profiles/sealants, etc.. Use profiles that do not contain any plasticizer.
Stressability and properties of the surfaces	The additional transparent top coat with effect coating affects the color shade impression and brilliancy of the respective paint surface. The service life depends primarily on the film thickness, the system build-up selected, and the intensity of the surface stress. Mechanical (e.g. abrasive) stress can cause scratches and scores, resulting in visual impairment. The intensity and visibility of these marks also depends on the chosen color shade.
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.
Do not use in areas exposed to moisture	Hydro-PU-Spray Metallic Finish 2177 is water-swellable Do not use in damp rooms and areas exposed to moisture. Moisture stains disappear when the surface has completely dried.
Cleaning and maintenance	To clean the enameled surfaces, use a clean, soft cloth, which is either dry or damp, but without any abrasive, solvent-based or caustic cleaning agents. Avoid applying too much pressure when cleaning (i.e. do not polish the surfaces). First, test the cleaning result in an unobtrusive area. Only clean surfaces that have completely dried and set.
Renovating	To renovate with other coating systems, prime the surfaces with 2K-Aqua Epoxy Primer 2373 or 2K-Aqua Epoxy Spray Primer 2375.
Further information	Follow the instructions on 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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