

Hydro-PU-XSpray Metallic Finish 2277

Metallic effect varnish, water-based, low odor, XVLP spray quality, for indoors



Pursuant to EN 71-3
Safety of toys
Resistant to saliva and sweat



Field of application

Metallic effect finish on colored acrylic resin enamel paint coatings in interiors. In particular in system build-up with Hydro-PU-XSpray Silk Matt Enamel 2288 on color enameled components such as doors, frames, wooden paneling, etc.

Properties

- Water-based, low-odor
- For indoors
- Optimized for use with XVLP Spray tools
- Practical, easy-to-open screw cup
- High resistance to flow
- Quick drying
- Excellent flow
- Block-resistant
- Extremely low yellowing tendency
- Hardwearing and cleanable
- Easy to apply
- Complies with EN 71-3 Safety of toys, resistant to saliva and perspiration
- Corresponds to requirements set out by "Ausschuss zur gesundheitlichen Bewertung von Bauprodukten" (AgBB, German Committee for Health-Related Evaluation of Building Products)

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 Paint 2188.
- Gloss grade** Silk gloss
- Base material** Acrylate copolymer dispersion with metallic effect pigments
- VOC** EU limit for this product (cat. A/d): 130 g/l (2010).
This product contains max. 100 g/l VOC.

Material description

Density	Approx. 1.0–1.05 g/cm ³
Packaging	1 l

Use

Thinning	Ready to spray. Only apply undiluted.
Tinting	Do not tint.
Compatibility	Do not mix with other types of materials.
Application	Stir thoroughly before use. Apply Hydro-PU-XSpray Metallic Finish 2277 unthinned using spray application. More information on spray application is provided in the following "Spray data" table. Before application, roughen the surface thoroughly with the Nonwoven Abrasive Tool Pad, Very Fine 3244. Thoroughly dust the surfaces with a microfiber cloth.
Consumption	Approx. 170–200 ml/m ² per layer. 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 with water immediately after use. Remove dried paint residue, for example on the spray nozzle, 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
Low pressure ¹⁾	Yellow front end ²⁾	—	50–100%	Ring setting 6–8	Unthinned	1½

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

¹⁾ Information relating to XVLP technology with Wagner FinishControl FC 3500 or FC 5000.

²⁾ StandardSpray spray attachment (yellow) for all standard enamel paints and woodstains, using the Riser Pipe Filter XVLP, fine, red 3333. Also keep the nozzle clean during application. Remove paint material that has not yet fully dried with a soft brush. Please follow the equipment manufacturer's instructions.

Drying (+20°C, 65% relative humidity)

Dust dry after approx. 1 hour.
Fully stressable after curing (after approx. 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. Only recycle completely empty containers. Dispose of liquid material residue at a collection point for old paint.

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 the suitability, load-bearing capacity and adhesive properties of existing coatings. Thoroughly sand intact enamel coatings. See also VOB Part C, DIN 18363, Section 3.

Metallic effect coating on acrylic resin enamels

Substrates and system build-up		Top coat ³⁾
Intact, load-bearing paint coatings with acrylic enamel paint, interior areas	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 EP Spray Primer 2375 and Hydro-PU-XSpray Isoprimer 2243 ^{1) 2)}	Hydro-PU-XSpray Metallic Finish 2277

¹⁾ For system build-up, preferably use the prime coats 2K-Aqua EP Primer 2373, 2K-Aqua EP Spray Primer 2375, Isoprimer 243, Hydro-PU-XSpray Isoprimer 2243, 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864. Follow the instructions under "Products for system build-up".

²⁾ We recommend applying the entire system build-up in spray application. Before applying the top coat, roughen the surface thoroughly with the Nonwoven Abrasive Pad, Very Fine 3244. Remove any dust from surfaces with a microfiber cloth.

³⁾ For large-surface application, in particular on walls, we recommend using the Hydro-PU-Spray Metallic Finish 2177.

Notes

Metallic effect impression

The metallic effect is particularly impressive on dark color shades. The effect is more subtle on light backgrounds. The metallic effect can be enhanced by shining additional light onto the surface.

Surface uniformity

In contrast to industrial coating processes in completely enclosed installations, material-based streaks 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.

Products for system build-up

Due to its blocking properties, the prime coat, in system build-up with 2K-Aqua EP Spray Primer 2375 or 2K-Aqua EP Primer 2373, as well as Hydro-PU-XSpray Isoprimer 2243 or Isoprimer 243, 2K-EP Varioprimer 865 and 2K-EP Varioprimer S 864, provides maximum reliability even under critical conditions. When using Hydro-PU-Spray Filler 2120 and Hydro-PU-XSpray Filler 2220, surface defects may occur under unfavorable conditions (e.g. thicker layers, short recoating intervals, and poor drying conditions).

Contiguous areas

Only coat contiguous areas with material from the same production lot.

Excluded field of application

Not for painting chairs, shelves, table tops, etc. or 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.

Notes

Stressability and properties of the surfaces

The additional transparent effect coating changes how the color shade and brilliance of the respective painted surface appear. The service life depends primarily on the film thickness, the chosen system build-up and the intensity of the surface stress. Mechanical (e.g. abrasive) stress can cause scratches and scores, negatively affecting the appearance. The intensity and visibility of these marks also depends on the selected 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-XSpray Metallic Finish 2277 can swell upon contact with water. Do not use in damp rooms and areas exposed to moisture. Moisture stains disappear when the surface has completely dried.

Cleaning and care

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.

Recoating

To rework with other coating systems, prime the surfaces with 2K-Aqua EP Primer 2373 or 2K-Aqua EP Spray Primer 2375.

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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