Data Sheet

Hydro-PU-XSpray Isoprimer 2243

water-based, low odor, XVLP spray application quality, cationic-isolating, matt, for exterior and interior use

BLUE ANGEL
THE GERMAN ECOLABEL
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Field of application

For isolating prime coats on wooden structures and materials without, with limited or with dimensional accuracy, also with intact old paint coats in both exterior and interior applications. For coniferous and deciduous wood that will be coated with a white or light, covering paint coat, e.g. roof undersides, windows, doors, paneling, etc. Can also be used on mineral substrates in interior areas. Suitable for subsequent system coating with all water-based Brillux enamel paint systems.

Properties

Water-based, low odor primer with good hiding power. Matt, cationic-isolating, diffusible, with good adhesion, and easy to apply. Prevents water-soluble discoloring wood constituents from bleeding through when white or light topcoats are applied. Excellent isolating effect against soot and nicotine stains. Specially formulated for efficient spray application in the XVLP spray application process.

Material description

Standard color shades	0095 white
Degree of gloss	matt
Base material	cationic bonding agent technology based on polymerization resin
VOC	EU limit value for this product (cat. A/g): 30 g/l (2010). This product contains max. 30 g/l VOC.
Constituent substances	cationic polymerization resin, titanium dioxide, barium sulphate, silicates, water, glycol ether and additives.
Density	Approx. 1.38–1.42 g/cm³
Packaging	0095 white and Color System: 1 liter special container for XVLP sprayer only

Use

Thinning Ready for spray application. Only apply undiluted.

Tinting Do not tint.

Compatibility Do not mix with other materials or other water-based products.

Application Apply Hydro-PU-XSpray Isoprimer 2243 undiluted using XVLP spray application. Ensure sufficient film thickness during application so that existing wood pores are completely covered. Apply several times if required. More data on spray application has been provided in the following “Spray data” table.

Consumption Approx. 130-170 ml/m² 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 Thoroughly clean tools immediately after use with water and soap. Dried paint residues e.g. on spray nozzle, can be removed using Universal Cleaner 1032. Remove stubborn dirt with Special Synthetic Resin Thinner 915. After spraying and before a material change, the equipment used absolutely must be cleaned thoroughly to prevent damage to the equipment as well as to the hoses and nozzles.

Spray data

Spray system	Nozzle	Spray angle	Supply air/ air quantity	Material pressure/ material quantity	Dilution	Cross-spraying
Low pressure [1)]	Yellow front end [2)]	–	100%	Ring setting 9	undiluted	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. Also keep the nozzle clean during application. Remove dry paint material with a soft brush. Please follow the equipment manufacturer’s instructions.

Drying (+20°C, 65% relative humidity)

Dust dry after approx. 30 minutes. Recoatable in system build-up with water-based coating systems after approx. 6 hours, at the earliest (see note). 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 varnishes/old paints.

Declaration

Product code BSW20
Comply with the specifications in the current safety data sheet.
Information for people allergic to isothiazolinone can be obtained by calling +49 251 7188-403

Coating build-up

Substrate preparation

The substrate must be solid, dry, clean, with good adhesiveness, load-bearing, and free from separating agents. The BFS Leaflet no. 18 specifies that the maximum moisture content for dimensionally stable components must be limited to 15%. For non-dimensionally stable components and components with limited dimensional stability, the moisture content must not exceed 18%. Check intact factory prime coats or intact old coats for their suitability, load-bearing capacity and adhesive properties. Remove any coatings that are defective and unsuitable. Thoroughly sand intact coats. 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. Also see BFS Leaflet no. 18, 4 and 5, as well as VOB Part C, DIN 18363, Paragraph 3.

Impregnation

Treat exterior, untreated wooden components with Wood Preservative Primer 250 if required or as may be necessary due to the type of wood. Also refer to BFS Leaflet No. 18, Section 6.

Prime coat

Apply Hydro-PU-XSpray Isoprimer 2243 uniformly, generously and undiluted. In the case of constituent-rich wood, two prime coats with Hydro-PU-XSpray Isoprimer 2243 must be applied. Apply a test coat if necessary.

Intermediate and top coats

Depending on component/structure, requirements and selection with Lacryl-PU, Hydro-PU-Tec, Hydro-PU-Spray and Hydro-PU-XSpray paint systems or with Topcoat 871.

Notes

Follow safety measures

The standard protective measures must also be adhered to when applying low-emission paints. Keep out of reach of children. During spray application use combination filter A2/P2. When sanding use dust filter P2. Ensure proper ventilation during application and drying. Avoid eating, drinking and smoking during application. Upon contact with eyes or skin, immediately rinse thoroughly with water. Ensure that the material does not leak into the sewage system, waters or soil.

Required drying time

In the case of constituent-rich wood, discoloring can occur when the first Hydro-PU-XSpray Isoprimer 2243 coat is applied. This discoloring is bound cationically in the paint film. To obtain effective isolation, allow for a sufficient drying time of approx. 6 hours before applying the next coat.

Avoid contact with plasticizers

Do not allow the paint coating to come into contact with plastics containing plasticizers, e.g. sealing profiles/sealants, etc. Use plasticizer-free profiles.

High-use surfaces

For surfaces with a higher degree of exposure, we recommend using two-component enamel paint systems.

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.

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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