



U2210

1K POLYURETAN

one-component single-coat semi-gloss polyurethane paint

Colour shades: As per the valid price list (7).

Use: The 1K POLYURETAN U2210 paint is designed for durable semi-gloss coatings of wood and metal surfaces in exterior and interior applications. U2210 is a modern single-coat paint (2in1) that optimally combines the corrosion resistance of a primer and at the same time creates a durable and smooth semi-gloss film comparable to a specialized enamel. 1K POLYURETAN is used for the protection of metals (steel, cast iron, older oxidized galvanized surfaces) in medium corrosive environments (outdoor urban environment, C3 corrosive aggressiveness – medium useful life, or indoor areas of manufacturing halls). For highly aggressive corrosive environments (consult COLORLAK technicians for advice), the metal substrate can be coated with a suitable primer (e.g., S2003, S2220, etc.).

1K POLYURETAN can be applied directly to the wood in 2-3 coats. This is possible due to the excellent ability of the paint to fill the pores and at the same time create a high-quality smooth final surface. For highly stressed exterior surfaces, we recommend that the wood is first treated with the FUNGISTOP S1031 fungicide.

U2210 can also be used on interior mineral substrates such as plaster, bricks, plinths, and walls that are exposed to only moderate mechanical stress.

The special composition gives the coating excellent opacity, weather stability and high UV resistance. The advantage of the one-component polyurethane (1K) is that it does not need to be cured, unlike two-component materials. Another practical property of the paint is that it does not need to be thinned for application by brush. Just open the tin, stir, and you are ready to paint. U2210 can also be used to repaint older synthetic paints.

U2210 1K POLYURETAN is suitable for application on products and surfaces that get into indirect contact with food, animal feed or drinking water.

Where high resistance and durability of the surface treatment are required, especially resistance to weather effects and UV radiation, for extremely stressed surfaces such as roofs, various structures and claddings, we recommend the use of specialised two-component polyurethane paints of the AXAPUR series, e.g. U2219. Consult COLORLAK technicians if needed.

Advantages:

- no need for curing (1K version)
- 2in1 single-coat paint (anti-corrosive primer + semi-gloss top coat)
- for wood, metal, mineral substrates
- high resistance to UV radiation and weather effects
- easy application, does not need thinning before direct application by brush
- fast drying
- also suitable for roofs

Application: U2210 can be applied by brush, roller, spraying in 2-3 normal coats at a temperature of 15-25°C and a maximum relative humidity of 75%.

Thinner: U2210 is ready for direct brush application. If thinning is required, U6000 thinner is recommended before application by brush, roller or spraying.

Preparation of the paint before application: Before use, remove any skin from the paint and mix thoroughly. Strain if necessary. Apply by brush, roller or spray to a dry, clean, rust-free, sanded or brushed and degreased substrate. U2210 can be used as a primer or top coat. The old paint must be removed and sanded if necessary, and any damaged areas sealed with a sealant. U2210 can be applied directly onto a dry and clean wooden or mineral substrate that must be free of any grease. When using U2210 as a primer, or when applying another layer more than 3 days after the previous coat, the dry film should be lightly sanded.

Apply U2210 in 2-3 thin coats at an interval of 3-5 hours at a temperature of 15-25°C and a maximum relative humidity up to 75%. For spray application, apply the paint in several thin coats using the “wet on wet” method at intervals of 1-3 hours. The coating is touch-dry within 3 hours, completely dry within 12 hours. The coating reaches its final properties after complete curing, i.e., in 1-2 weeks (depending on real conditions). U2210 is ready for direct brush application. C6000 or technical acetone is recommended for cleaning and washing tools.

Recommended application conditions:

- **pre-treatment of the substrate**
 - coating of wood: U2210 can be applied directly on a dry and clean wooden substrate free of any grease, or on a sanded priming coat (e.g., S2070, SU2020). The first method is suitable for perfectly sanded wood or coating with the highest requirements for the smoothness of the final surface.
 - coating of steel: U2210 can be applied directly on a dry, degreased, sanded and cleaned metal substrate, for the surfaces exposed to higher corrosion stress pretreatment with anti-corrosive primer (e.g., S2003, S2220) is recommended
- the optimum ambient temperature and temperature of the substrate is 15-25°C and must be at least 3°C above the dew point
- the minimum temperature is in general 10°C
- the maximum relative air humidity is 75%
- the individual coats of U2210 can be overcoated by “wet on wet” spraying after approximately 60-180 minutes at the dry film thickness of 40µm
- if the “wet on wet” method is not used, it is recommended to apply another coat after 24 hours
- should another coat be applied at an interval longer than 3 days, the surface needs to be gently sanded (sand paper No. 320 and more);
- the paint is applied by cross spraying or by brush to achieve a uniform layer
- the drying time varies depending on climate conditions and coat thickness
- the coating reaches its final properties after complete curing, which may take approximately 1-2 days

Spray application is always a combination of several factors (choice of spraying equipment, working pressure, size and type of nozzles, temperature during application, consistency of the paint used, etc.). These factors need to be considered with regard to real conditions and the resulting optimal setting of the application equipment must be selected accordingly. For further information or another method of application, kindly consult the manufacturer.

An example of the coating process:

2in1 coating for metal (steel, cast iron, old galvanized surfaces)

1. 2-3 coats of 1K POLYURETAN U2210 at an interval of 3-5 hours (brush)

Metal finish in highly corrosive environments (specific requirements and industrial implementations)

1. 1 coat of SYNOREX EXTRA S2003 (or S2220), drying time 6 hours (spraying) or 24 hours (brush)
2. 2 coats of 1K POLYURETAN U2210 at an interval of 3-5 hours (brush)

2in1 wood finish (exterior)

1. 1 coat of FUNGISTOP S1031, drying time 24 hours
2. 2-3 coats of 1K POLYURETAN U2210 at an interval of 3-5 hours (brush)

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Mineral substrates – plasters, bricks (interior)

1. 1 penetrating coat of 1K POLYURETAN U2210, thinning 30-40% with U6000, drying time 24 hours
2. 2 coats of 1K POLYURETAN U2210 at an interval of 3-5 hours (brush)

The quality of the paint system is guaranteed by its manufacturer provided that the above paints are used and the prescribed application procedures are adhered to.

Properties of the paint:

Outflow cup Ø 4 mm	150-210 s
Density	1.18-1.24 g/cm ³
Drying time	max. 3 hours
Dust dry (degree 1) light handling (degree 4)	max. 12 hours

Properties of the dry coating: (3 days after application)

Gloss, gloss number [GU] (geometry 60°)	50-70
Cross-hatch adhesion test	at least degree 1

Theoretical spreading rate: 10-12m²/l in one coat depending on the shade.

Packaging: According to the current offer

Shelf life: At temperatures of 5-25°C for the duration of the warranty period indicated on the packaging.

**Product classification:**

Signal word: **Warning**

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

For details, see the Safety Data Sheet and the Company Standard of this product.

“The user is responsible for correct use of paints or for the composition and correct application of a paint system, i.e., the user must always consider all circumstances – conditions of application and processing that could affect the final quality of surface treatment.

A complaint relating to a colour shade can be acknowledged only under the condition of a previously prepared test coating on a small area, in accordance with the mandatory technological process, which accompanies the complaint. No claims filed after using up the product will be taken into consideration. COLORLAK, a.s. reserves the right to change data in technical and advertising materials without any prior notice.”

“The technical recommendations contained in this Catalogue Sheet are given based on our experience and best knowledge of the state of the art in science and practice; they are not binding and they do not constitute any obligations unless expressly defined in the purchase contract.”

Marketing, 8/2026