

2K-Durapur 7740

extremely durable two-component PUR coating, high gloss

Color System Base code



Field of application

For particularly durable interior and exterior enamel coats, e.g. on steel structure components and steel constructions, galvanized components and structures. Also suitable for application on wood materials indoors, e.g. MDF board or surfaces coated with melamine resin.

Properties

- PUR acrylic enamel paint
- For indoors and outdoors
- Two-component
- Solvent-based
- Excellent adhesion
- Quick drying
- For particularly durable surfaces
- Very resistant to light and weather exposure, with a lasting gloss
- Very abrasion-resistant
- Resistant to many chemicals according to test certificate
- Disinfectant-resistant according to test certificate

Material description

Color shade	0095 white Additional color shades from the Brillux Color System.
Gloss grade	High gloss
Base material	PUR acrylate resin varnish, two component
VOC	EU limit for this product (Cat. A/j): 500 g/l (2010). This product contains max. 500 g/l VOC. The specified VOC value refers to the ready-to-use mixture of base paint and hardener.
Viscosity upon delivery (+20°C):	> 90 s, DIN cup 4 mm
Flash point	> +23–60°C

Material description

Density	Approx. 1.0–1.4 g/cm ³
Packaging	Standard color shade: 625 ml, 2.0 l Color System: 625 ml, 2.0 l (Base enamel and hardener are supplied separately)

Use

Mixing ratio	5 parts basic enamel by weight to 1 part 2K-Durapur Hardener 7770 by weight (corresponds to approx. 100 g basic enamel : 18 g hardener). Make sure to mix the two components thoroughly.
Mixing	Mix basic enamel and hardener in the specified mixing ratio shortly before application. Then pour the mixture into another clean container and stir again thoroughly. Avoid inclusion of air during mixing. Do not mix freshly mixed material with residual material. You must comply with the limited time for use (pot life).
Thinning	After mixing, depending on the application method, up to 10% by volume with PUR Thinner 617.
Tinting	All colors can be mixed with one another without limitations.
Compatibility	Can only be mixed with similar materials and those stipulated in this data sheet.
Application	2K-Durapur 7740 should preferably be applied by means of spraying. Small, delicate components can also be coated by means of a brush. More information on spray application is provided in the “Spray data” table.
Pot life (at +20°C)	Approx. 4 hours. Higher temperatures considerably reduce the pot life. After the pot life has ended, do not dilute the material again or continue to use it.
Consumption	Approx. 100–130/m ² for each cross coat Determine the exact consumption by means of a test application on the object to be coated.
Application temperature	Best at +15°C. Do not apply below +5°C and above +25°C nor in direct sunlight, at high humidity (≥ 80%), during rainfall, fog, cases of trapped moisture, strong wind, or to very warm substrates. Please observe the information on moisture sensitivity provided in “Notes”.
Tool cleaning	Clean tools immediately after use with PUR Thinner 617. Clean spray devices very thoroughly.

Use

Spray data

Spray system	Nozzle	Spray angle	Supply air/air quantity	Material pressure/material quantity	Thinning	Cross-spraying
High pressure	1.4 mm	–	–	3 bar	Approx. 10%	1–1½
Low pressure	Yellow front end ²⁾	–	50–100%	Ring setting 6–8	Approx. 10%	1–1½
AirCoat ³⁾	0.009–0.011 inch	–	3–4 bar (air)	120–150 bar	Approx. 4–6%	1

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.

³⁾ Information related to the use of AirCoat nozzles 9/40 or 11/40 (red air cap).

Drying (+20°C, 65% relative humidity)

Dust dry after approx. 30 minutes. Recoatable after approx. 6–8 hours and fully dried after approx. 16–24 hours. Fully cured after approx. 7 days. Allow longer drying times at lower temperatures and/or higher air humidity.

Oven drying: Ensure a flash-off time of approx. 30 minutes. Then bake the enamel for approx. 30 minutes at approx. 80°C.

Storage

Store in a dry, well ventilated place at a minimum temperature of +10°C. Reseal opened, unmixed containers tightly.

Declaration

Product code PU50
Comply with the specifications in the current safety data sheet.

Substrate preparation

The substrate must be solid, dry, clean, with good adhesiveness, load-bearing and free from separating agents. Degrease and derust iron. Thoroughly remove mill scale and layers of welding scale. Prepare zinc, galvanized surfaces by cleaning them with Universal Cleaner 1032 or with ammonia alkaline washing fluid (in accordance with BFS Leaflet No. 5, Paragraph 3.3). Clean bare metal aluminum with Universal Cleaner 1032 and a nonwoven abrasive, then rinse thoroughly with warm water. When treating aluminum, follow the instructions in BFS Leaflet No. 6. Prepare plastics in accordance with BFS Leaflet No. 22. Check the suitability, load-bearing capacity and adhesive properties of existing coatings. For substrates on which there is a possibility of dissolving or peeling, for example oil and enamel coatings, we recommend applying a test coat. Remove defective and unsuitable coatings completely and dispose of them in accordance with the applicable regulations. Thoroughly sand intact old coatings. 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. Only perform this kind of work in well ventilated areas and ensure the use of appropriate protective equipment (including respiratory protective equipment) as required. Prepare the substrate in accordance with the specific requirements. See also VOB Part C, DIN 18363, Section 3.

Coatings on iron/steel, zinc, zinc-coated steel, aluminum, and plastic, exterior and interior

Substrates	Prime coat	Intermediate coat	Top coat
Iron/steel untreated	2K-EP Varioprimer S 864 or 2K-EP Varioprimer 865 (exterior 2x)	2K-Durapur 7740	2K-Durapur 7740
Iron/steel with factory prime coat	First the defective areas and then also the entire surface with 2K-EP Varioprimer S 864 or 2K-EP Varioprimer 865		
Aluminum (bare metal), zinc, zinc-coated components uncoated ¹⁾	Depending on the requirements and selection with 2K-EP Varioprimer S 864, 2K-EP Varioprimer 865, 2K-Aqua EP Primer 2373 or 2K-Aqua EP Spray Primer 2375		
Coatable plastic, untreated	2K-EP Varioprimer S 864 or 2K-EP Varioprimer 865		
Coil coating, powder coating			
Intact, load-bearing, two-component coatings	Depending on the requirements and selection with 2K-EP Varioprimer S 864 or 2K-EP Varioprimer 865, 2K-Aqua EP Primer 2373 or 2K-Aqua EP Spray Primer 2375		

¹⁾ Steel frames prime-coated in the factory with a hydro-immersion prime coat can be coated directly with 2K-Durapur 7740 without an additional all-surface prime coat.

Interior coatings on wooden-based materials

Substrates	Prime coat	Intermediate coat	Top coat
Wood-composite boards, interior, e.g. MDF boards or melamine resin panels	Depending on the requirements and selection with 2K-EP Varioprimer S 864 or 2K-EP Varioprimer 865, 2K-Aqua EP Primer 2373 or 2K-Aqua EP Spray Primer 2375	2K-Durapur 7740	2K-Durapur 7740

Notes

Note the sensitivity to moisture

2K-Durapur coatings are sensitive to moisture. For this reason, always make sure that both the spray air and the substrate are dry. During application and drying outdoors (at least 24 hours), any moisture exposure, e.g. dew, fog or rain, must be avoided. Take the dew point temperature into consideration. Do not apply unless the temperature is at least 3°C above the dew point.

Application indoors

Ensure proper ventilation during application and drying indoors. Due to the lower odor, we recommend using the water-based 2K-Aqua coatings.

Sanding surfaces

We recommend sanding the surfaces between the individual working steps. Light sanding is required for a "paint-on-paint" structure.

Designs with brilliant or intense metallic color shades

Brilliant, pure intense color shades, e.g. in the yellow, orange, red, magenta and yellow-green range, have a low hiding power due to the nature of their pigments. When using critical color shades in these color ranges, we recommend applying a full-covering prime coat in the corresponding base color (Basecode). In addition to the standard coating buildup, additional coats may be required.

Cleaning and maintenance

For cleaning the painted surfaces, use a clean, soft, dry or damp cloth 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.

Further information

Follow the instructions on the data sheets of the products used.

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.

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