

## Floortec 2K-Purolid T 877

**Silk gloss, water-dilutable, transparent floor sealer for interior and exterior use, with Floortec PU Hardener 879**



### Field of application

For transparent resistant sealing on a variety of floor coatings, as well as for additional surface design options with Floortec Decochips 843. Specifically designed to improve the cleanability and durability of coated exterior and interior surfaces. In the system, it can be used on floor coatings with Floortec 2K-Purolid F 878, Floortec 2C Epoxy Sealer 848, Floortec PU Floor Sealer ELF 847, Floortec 2C PUR Thick Layer LF 833 and Floortec PUR Coating 852. Can also be used as a protective sealer in system build-up with plaster floor Floortec 2C Mineralico SL 470 and Luxury Vinyl Tiles (LVT) 3055.

### Properties

- Water-dilutable
- Very low odor
- Water-vapor-permeable
- Rapid curing
- Very good flow properties and smooth surface
- Easy to apply
- Excellent cleanability
- Suitable for chair-caster loads
- Can be combined with Floortec Decochips 843
- Highly resistant to mechanical and chemical stresses
- Resistant to diluted alkaline solutions, weak acids, oils, gasoline, water and aqueous salt solutions (e.g., de-icing salt)
- Resistant to chemicals in accordance with test verification
- Tested in accordance with the requirements of the AgBB evaluation scheme and in accordance with the test certificate, suitable for use with indirect contact with foodstuffs
- Disinfectant-resistant in accordance with the test verification
- Can be decontaminated in accordance with DIN 25415 and in accordance with the test verification
- Tested as a slip-resistant coating, Slip Resistance Class R 9 in accordance with the test certificate when sealing Floortec Decochips 843
- Tested as a slip-resistant coating, Slip Resistance Class R 10 in accordance with the test certificate when adding Floortec Safe Step 841

## Material description

<b>Color shade</b>	Colorless-transparent
<b>Degree of gloss</b>	Silk gloss
<b>Base material</b>	PUR acrylic sealer, two component
<b>VOC</b>	EU limit value for this product (Cat. A/j: 140 g/l (2010)). This product contains max. 40 g/l VOC. The specified VOC value refers to the ready-to-use mixture of base paint and hardener.
<b>Density</b>	Approx. 1.05 g/m <sup>3</sup>
<b>Packaging</b>	3.5 liters (Base paint and hardener in separate containers)

# Floortec PU Hardener 879

Special PU Hardener for mixing with Floortec 2K-Purolid T 876, Floortec 2K-Purolid T 877 and Floortec 2K-Purolid F 878



## Field of application

For mixing with Floortec 2K-Purolid T 876, Floortec 2K-Purolid T 877, and Floortec 2K-Purolid F 878.

## Properties

Special system hardener. The container size has been adapted to the mixing ratio.

## Material description

<b>Color shade</b>	Colorless
<b>Base material</b>	Aliphatic polyisocyanate
<b>Flash point</b>	> +61 °C
<b>Density</b>	Approx. 1.09-1.13 g/cm <sup>3</sup>
<b>Packaging</b>	500 ml (Base paint and hardener in separate containers)

<b>Mixing ratio</b>	7 parts Floortec 2K-Purolid F 877 to 1 part by volume Floortec PU Hardener 879. This corresponds to about 100 g of base paint : 16 g hardener. Ensure thorough mixing of the two components.
<b>Mixing</b>	Before adding the hardener, thoroughly stir the base material until it is homogeneous. Mix base paint and hardener in the specified mixing ratio shortly before application. Ensure the hardener container is completely emptied without residue. 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. Absolutely comply with the limited application time (pot life). Stir in additives with Floortec Safe Step 841 after mixing. Do not tightly seal any container containing a mixture of base paint/hardener because such formulations will react to form carbon dioxide gas and thus pose a bursting hazard.
<b>Pre-reaction time</b>	After mixing, allow to pre-react for about 10 minutes.
<b>Thinning</b>	For use with Floortec Safe Step 841, thin with up to approx. 5% water. In all other application cases, use unthinned.
<b>Adding Floortec Safe Step 841 (optional)</b>	To increase the slip resistance, after mixing in Floortec 2K-Purolid F 877, add approx. 3 wt.% Floortec Safe Step 841, mix thoroughly, and thin with 5% water. To 3.5 liter, add: 4 ½ capfuls of Floortec Safe Step 841 (corresponds to approx. 135 g). The container cap can be used as a metering aid. Fill the cap up to the bottom edge of the toothed fluting. Important note: The white sealing pad must be present or must be inserted. Ensure compliance with the exact quantity added. After work breaks, stir the material thoroughly.
<b>Tinting</b>	Do not tint.
<b>Compatibility</b>	Can only be mixed with materials stipulated in this data sheet.
<b>Application</b>	Pour the mixed sealer into a clean container (e.g., a plastic bucket) and apply evenly with the Microfiber Paint Roller 1221. We recommend using the Plastic Paint Grid 1484. Begin on the side with the most incident light (generally facing a window) and work away from the light. While doing so, observe the completed surfaces and where necessary, correct any potential flaws immediately. Apply the sealer in max. 1 m wide strips at right angles to the incidence of light (generally parallel to the window area) and to achieve a uniform surface gloss with the main light incidence, roll over the surface evenly. Avoid ponding at all costs. For corners and other hard-to-reach places that cannot be painted using the Microfiber Paint Roller 1221, pre-paint with a flat brush and immediately roll over as far as possible, to avoid any visible brush marks. Where possible, when applying a second coat, this should be on the same day after a sufficient drying period (approx. 4 hours). After a drying period of more than 16 hours, intermediate sanding with an abrasive disk for PU coatings is required. To ensure smooth, rapid application, we recommend coordinating the number of employees to the size of the work area before starting.

## Use

<b>Application</b>	To achieve Slip Resistance R10, apply a top coat of Floortec 2K-Purolid F 877, adding Floortec Safe Step 841. Continue to stir the mixed material thoroughly during application, in order to ensure that Floortec Safe Step 841 is evenly distributed into the material. During application, do not set or press the paint roller against the bottom of the paint vessel.
<b>Pot life (at +20°C)</b>	Maximum 2 hours. After the pot life period has ended, do not thin the material again or continue to use it. Higher temperatures shorten the pot life.
<b>Consumption</b>	Approx. 90-100 ml/m <sup>2</sup> for each coat. Apply in ample, uniform layers. Determine exact consumption by means of a test application on the object to be coated. For a proven, slip-resistant system build-up, comply with the consumption information in accordance with the relevant test verification.
<b>Application temperature</b>	Do not apply at an air, substrate or object temperature below +8°C and above +25°C or in direct sunlight, at high humidity (≥ 80%), rainfall, fog, retained moisture, strong wind, or excessively warm substrates. Take the dew point temperature into consideration. Apply at temperatures at least 3°C above the dew point.
<b>Tool cleaning</b>	Clean tools immediately after use with water and Universal Cleaner 1032.

## Drying (+20°C, 65% relative humidity)

Dust dry after approx. 2 hours. Can be exposed to normal walking stress after approx. 24 hours. Fully hardened as well as ready for chemical and mechanical stress after approx. 7 days. To achieve good adhesion without sanding, the subsequent coating build-up with 2K-Purolid T 877 must take place within 4–16 hours. Longer waiting periods require intermediate sanding. Allow for longer drying time if the temperature is lower and/or the humidity is higher. During the drying and curing phases, ensure proper ventilation. The Blower TG1 1800 can be used to promote the drying process.

## Storage

Cool, dry, and frost-free, between +5°C and +35°C in a well-ventilated area. Reseal opened, unmixed containers tightly.

## Declaration

<b>Product code</b>	PU50 The information in the current Safety Data Sheet applies.
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**Substrate preparation**

The coating/surface to be sealed must be completely cured, hard, dry, clean, load-bearing, and free from separating agents or other intermediate layers affecting adhesion. The instructions for the coating build-up in the respective floor coating Data Sheets are to be observed. Sealing with Design Floor Covering 3055 requires that no layer-forming or cleaning and care products containing wax have been applied during use. If this cannot be determined for certain, the Brillux consulting service should be contacted. The Design Floor Covering 3055 is to be prepared and cleaned before application with Floortec 2K-Purolid T 877. Apply the Deep Cleaner R 3263 diluted with water in a ratio of up to 1:5 and clean the floor after an exposure time of 10–15 minutes using a rotary disk machine with an abrasive disk for PU coatings, 3694.0400.0002. For Design Floors with a textured surface, also work with a scrub brush to remove stubborn stains in the indentations. Remove the cleaning waste water with a suitable wet vacuum cleaner. Then neutralize the floor surfaces with clear water until all the cleaning agent residue has been completely removed, using a rotary disk machine with an abrasive disk for PU coatings, 3694.0400.0002 (max. 50 m<sup>2</sup>/pad side), i.e. there is no more foam. Once again thoroughly vacuum with a suitable wet vacuum cleaner and allow the surfaces and joint areas to dry. The Blower TG1 1800 can be used to promote the drying process. This measure allows the surfaces to become matt, existing scratches are leveled out, and an optimum adhesion of the subsequent sealing is ensured.

**Clear sealing**

Depending on the requirements of the floor coating, seal 1–2x with Floortec 2K-Purolid T 877, silk matt. When sealing twice, allow a waiting period of at least 4 and a max. of 16 hours in between the coats. For longer waiting periods between the individual work steps (more than 16 hours), thorough intermediate sanding with a nonwoven abrasive tool is required before applying a further coating.

**Notes****Contiguous surfaces**

Only seal contiguous surfaces with material from the same batch. To achieve a uniform degree of gloss on uniform surfaces, apply the coats uniformly in an ample thickness.

**Take the dew point temperature into consideration**

If the dew point temperature limit is disregarded (especially during the hot summer months), e.g., in cellar rooms and garages, patches of varied gloss may occur as a result of inadequate de-aeration and ventilation. For this reason, ensure proper ventilation during application and drying. Depending on the individual requirements, proper ventilation is recommended, e.g., the Blower TG1 1800.

**Color shade alteration**

The sealer influences the substrate color shade and significantly contributes to the color effect, e.g., with Floortec 2C Mineralico SL 470.

<b>Transparent-sealed surfaces</b>	Surfaces treated with transparent sealer have the properties of the respective transparent sealer. Only areas with low to medium mechanical stress are suitable, which can be trafficked by vehicles with pneumatic tires, such as cars. Even on surfaces with clear sealing, optical impairments cannot be completely prevented. Ingredients made of organic substances and chemicals (e.g., tea, coffee, red wine, plant parts and leaves, as well as disinfectants and acids, etc.), as well as contact with plastics, e.g. profiles, sealants and vehicle tires, can also result in color changes. The functionality is not affected by these changes in appearance.
<b>Prolonged moisture impact</b>	In the event of sustained moisture impact, e.g., standing water, the seal will begin to exhibit a noticeable whitish-milky deposit, especially on dark color shades. This disappears after the surface has dried completely. The properties of the sealer and the technical capacity remain unaffected.
<b>Use and surface stress</b>	Sealers and coatings on floor areas are subject to use-related wear. The specific service life depends primarily on the film thickness and the intensity of the surface stress. Abrasive stresses (e.g. from hard chair castors, sand, grit, metal shavings, etc.) can cause light-colored and even whitish scratches and score marks, and are detrimental to the appearance. The intensity and visibility of these marks depends on the chosen color shade. The technical functionality of the floor surfaces is not impaired by this.
<b>Ability to clean slip-resistant surfaces</b>	Slip-resistant surfaces increase safety, but are easily soiled due to the increased roughness and are not as easy to clean as smooth surfaces. When using Floortec Safe Step 841 the disadvantages of a slip-resistant surface are minimized, due to the roundness of the glass spheres.
<b>Use with disinfectant</b>	If object-specific resistance to disinfectants is required, we recommend performing appropriate preliminary tests with the compounds used on site. For questions relating to this, contact the Brillux Consulting Service.
<b>Use of office chairs</b>	Office chairs must be equipped with soft castors of type W in accordance with DIN 68131.
<b>Surface protection with chair/furniture glides</b>	Chairs with broken or missing chair glides as well as unsuitable chair rollers destroy both the surface protection as well as the sealer, their use must therefore be avoided. The use of suitable chair/furniture glides (not simply, self-adhesive felt pads) is strongly recommended.
<b>Carpets and furniture</b>	Do not lay any carpets during the first 14 days. Carefully position the furniture and other furnishings.
<b>Further information</b>	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.

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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