

Finish W TRP Radiant Varnish: Complete Application Guide

The **Finish W TRP Radiant** varnish is the specific version for protecting floors coated with MicroQuarz® systems. It is a two-component varnish (base and hardener) mixed in a 5:1 ratio (1 kg of base to every 200 g of hardener).

For it to work correctly and provide maximum hardness and abrasion resistance, **the golden rule is to always apply it in very thin, well-spread coats** (with a coverage rate of 60-70 g/m²). Applying thick coats is a mistake, as this softens the varnish and can create problems such as bubbles or loss of adhesion. By contrast, applying coats with insufficient product results in reduced protection and cleaning difficulties.

Generally, 2 or 3 coats are applied, and there are two main methods for working it:

1. Roller method (for standard systems)

- A short-pile microfibre roller is used, first cutting in the perimeter with a brush.
- Apply in one direction and then work the roller back in the opposite direction to "comb" the product.
- The waiting time between coats must be a **minimum of 6 hours at 20°C**. If, for any reason, more than **24–48 hours elapse** between coats, it is necessary to lightly sand with **180-grit paper** to **key the surface** before applying the next coat.
- It is essential to prepare a fresh mix of the product for each coat, as the varnish continues to cure once mixed.

2. Trowel method (exclusive to floors sanded with diamond discs)

- If the floor has been correctly sanded with diamond discs (leaving no raised edges or ridges), the varnish can be applied directly with a PVC trowel.
- In high-resistance systems such as Hard TRANSIT XL (ideal for high-traffic flooring), the varnish can be diluted with 10% water to improve penetration.
- With this method, the first coat is absorbed to a large extent by the floor, which is completely normal and helps consolidate the coating.
- After applying the first coat with a trowel, you should wait about 6 hours before applying the second, always ensuring that no product build-up remains.

Consequences of applying thick coats of varnish

If you apply a thick coat of varnish, this will cause several problems rather than achieving greater protection, as this material is specifically designed to be applied in very thin coats.

The direct consequences of applying thick coats are:

Softening

Contrary to what is often thought, applying more product does not provide more protection; in fact, thick coats soften the varnish and reduce its resistance.

Visual defects

Bubbles or white or greenish marks may appear on the surface.

System failure

There may be adhesion failure between the varnish and the coating.

- The golden rule of this system is that **less product means more protection and hardness**. For the varnish to reach its maximum hardness and abrasion resistance, it must always be applied in a thin, well-spread coat. **60-70 g/m² per coat**.

Mix preparation protocol

To prepare the two-component varnish mix (Finish W TRP / Radiant), you must follow this exact protocol:



5:1 ratio

You must mix Component A (base) and Component B (hardener) in a 5 to 1 ratio. This means that for every **1 kg of base, you must add 200 g of hardener** (20% hardener).



Fresh mix per coat (essential rule)

Never mix all the product at once. Never mix all the product at once. It is essential to prepare only the amount you will use for the first coat and prepare a fresh mix for the second coat. The reason is that the product continues to cure once mixed; although it may appear to retain the same viscosity, it will lose its adhesion properties. Discard any remaining catalysed product.



Mechanical mixing

Use a **mechanical mixer for 2 to 3 minutes** until the mix is completely homogeneous. Always at low speed.



Adjustment for heat

If you are working in summer or in very hot conditions, you can add **up to 10% water to the base** before adding and mixing the hardener.

Tools required for application

To apply Finish W TRP Radiant varnish (and prepare the mixture correctly), you will need the following tools depending on the application method you choose:

For preparing the mixture

Mechanical mixer: This is essential for mixing Component A (base) and Component B (hardener) for 2 to 3 minutes, ensuring that the mixture is completely homogeneous before application.

For applying to the floor

- **Brush:** Used as the first step in both methods to cut in or outline the entire perimeter of the room before applying the varnish to the rest of the surface.
- **Short-pile microfibre roller (or velour):** This is the main tool if you are using the **roller method** for standard systems.
- **PVC trowel:** This is the specific tool you must use if you opt for the **trowel method**, which is only valid if the floor has been previously sanded with diamond discs (to prevent the trowel from snagging on any ridges).


Additional correction tools


Fine 180-grit sandpaper: You will only need this to lightly sand and open the pore if, for any unforeseen reason, more than 24 - 48 hours elapse between applying the first and second coat of varnish.


What function does **Primer Finish** have before the varnish?

Primer Finish is a single-component resin formulated with polyurethane and water-based acrylic that acts as an essential preparatory step before varnishing.

Its main functions are:

 **Seal the pores**
Seals the surface of the MicroQuarz® coating after the final sanding.

 **Consolidate the substrate**
Helps harden and stabilise the substrate.

 **Facilitate the anchoring of the final varnish**
The recommended approach is to apply a **single coat** of Primer Finish (40 g/m²). By applying only one coat, the pores remain slightly open, which **allows the subsequent two-component varnish to penetrate more effectively** and further consolidate the entire MicroQuarz® system.

How do the two varnishes **differ**?

The main difference between the two varnishes lies in the surface for which their composition and application times are designed: **Finish W TRP Radiant** is the specific version for **floors**, whilst standard **Finish W TRP** is formulated for **walls**.

Characteristic	Finish W TRP (Walls)	Finish W TRP Radiant (Floors)
Surface	Walls	Floors
Drying time between coats	~40 minutes	Minimum 6 hours at 20°C
Application tools	Short-pile roller (exclusively)	Short-pile roller or PVC trowel (if the floor has been sanded with diamond discs)
Number of coats	2 coats	2 to 3 coats depending on the method and absorption

QRC-Refill: Mineral Additive Component C

Composition and Benefits

QRC-Refill is a mineral additive developed to be incorporated as **Component C** into the floor varnish **Finish WTRP Radiant**, turning it into a three-component system.

It is formulated from a balanced mix of crystalline microparticles from **20 to 60 microns**, designed to enhance the performance of the finish on mineral coatings with a pronounced texture, such as MicroQuarz® Hard Transit XL and MicroQuarz® Roc.

Once incorporated, it **improves abrasion resistance and make cleaning easier in mineral products.**

Instructions for Use

Step 1

Mix **QRC-Refill** into the pre-mixed **Finish WTRP Radiant** base (**Component A + Component B** combined), in the proportion supplied by Ecoresinas.

Step 2

Apply **two coats** of this three-component mix using a trowel, observing the recommended coverage rates to ensure good surface protection.

Step 3

Once dry, carry out a **light sanding** with 150-180 grit paper.

Step 4

Apply a **final coat of Finish W TRP Radiant WITHOUT QRC-Refill.**

Indicative consumption

Approximate total coverage rate for the three coats: **200 g/m².**