

EP Colorant

Description

Quartzline EP Colorant is a pigment concentrate paste based on organic and inorganic pigments well dispersed in solvent free epoxy resins.

EP Colorant can be used for solvent-free or solvent-based epoxy products such as self-levelling floorings, trowel floorings and other coatings.

These pastes were specifically developed to be used in conjunction with Quartzline systems such as the Coating EPG, Coating GWV and the self-levelling epoxy floor system "SL-EP 2K"

All 12 colour pastes are produced in-house with a powerful three roll mill and can be mixed together in any ratio to obtain a wide range colours, including all RAL and NCS shades. Other colours can be developed on request.

The use of Quartzline EP Colorant guarantees a good colour accuracy and high colour reproducibility. Contains surfactant and dispersant, thus compatible with a wide range of base materials and hardeners.

Also available with complete database and tinting system for larger production facilities.

Properties

High pigment content and colour strength, only a minimal dosage is required

Almost all RAL, NCS and Sikkens colours possible

VOC-free

Low odour

Suitable for tinting systems.

Density ¹ (g/cm ³)	See below
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Usage self-levelling ² (%)	3 – 5
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Usage coatings ² (%)	5 – 20
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Usage solids ² (%)	1 – 5
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Solid content	See below
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¹ = EN 12190, 14 dagen/ + 23°C / 50% R.H

² = Percentage by weight. Actual quantity depending on desired colour strength, hiding power and layer thickness

Name	E.E.W.	Density (g/cm ³)	Pigment Content
Ep Colorant White	400	1,4954	50 %
Ep Colorant Black	400	1,5210	50 %
Ep Colorant Oxide Yellow	333	1,5378	40 %
Ep Colorant Oxide Red	333	1,4743	40 %
Ep Colorant Tint Yellow	333	1,4133	40 %
Ep Colorant Organic Yellow	333	1,3116	40 %
Ep Colorant Organic Red	333	1,3480	40 %
Ep Colorant Organic Orange	333	1,3809	40 %
Ep Colorant Phtalo Blue	333	1,4965	40 %
Ep Colorant Phtalo Green	333	1,2518	40 %
Ep Colorant Violet Blue	333	1,4764	40 %
Ep Colorant Violet Red	333	1,5130	40 %

These pigment concentrates are suitable for use in automatic dispensing systems.

In collaboration with Füll Dispensing Systems, Quartzline can supply a complete solution.

The special volumetric VX5 dispensing system can be customized to your needs. Canister sizes can be determined based on your expected use.

The Füll automatic dispensing system comes with a complete Ral and NCS colour database, computer and software package pre-installed.

This gives our customers the opportunity to buy colourless Quartzline epoxy systems and colour them on location. An especially interesting and advantageous proposition for Quartzline distributors.



Form

Coloured paste.

Packaging

1 kg, 5 kg, 10 kg and 20 kg buckets. Larger quantities on request.

Shelf life / Storage

Up to 12 months after the production date when kept in the original, sealed, unopened and undamaged packaging and stored dry between +5°C and +30°C.

Mixing

Before use, mix thoroughly

Application

Add Quartzline EP Colorant to base component whilst stirring, preferably by means of a mechanical stirrer.

Epoxy resins cure by chemical reaction with the hardener component. To ensure complete curing, the correct quantity of hardener should be added to the mixture of epoxy resin and Quartzline EP Colorant. Adding a larger quantity of Quartzline EP Colorant to a base component will require an additional quantity of hardener. An incomplete curing may result in various film defects.

The quantity of hardener may be calculated using the epoxy equivalent weight (E.E.W.) and the hardener equivalent weight (H.E.W.). The ratio between both components is correct when the total quantity of epoxy equivalents is equal to the total quantity of hardener equivalents.

The required quantity of hardener necessary for any amount of Quartzline EP Colorant can be calculated with following formula:

$$\text{QTY hardener} = \frac{\text{QTY EP Colorant} \times \text{HEW hardener}}{\text{EEW EP Colorant}}$$

Whereby:

QTY hardener	Required quantity by weight of hardener;
QTY EP Colorant	The quantity by weight of Quartzline EP Colorant;
HEW hardener	Equivalent weight of the hardener (this value may be obtained from the supplier of the hardener)
EEW EP Colorant	The equivalent weight of the Quartzline EP Colorant.

For example:

2000 gram Quartzline EP Colorant White is cured with a curing agent. According to the technical information, the H.E.W. for the hardener is 95. The E.E.W. for EP Colourant White is according to the table 400.

The quantity of hardener which should be added is: $(2000 \times 95) / 400 = 475$ gram hardener.

When 2000 gram Quartzline EP Colorant White is added to a given quantity of epoxy resin which will be cured with the same hardener, an additional quantity of 475 gram hardener should be added to the mixture of resins and EP Colorant to obtain proper curing.

Value base

All technical data stated in this technical data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Health and safety information

For information and advice on the safety handling, storage and disposal of chemical products, users should refer to the most recent material safety data sheet containing physical, ecological, toxicological and other safety related data.

Legal notes

This information, and in particular the recommendations related to the application and end use of Quartzline products, is provided in good faith based on our current knowledge and experience of the products. It is valid for products that are correctly stored, treated and applied under normal conditions in accordance with Quartzline's recommendations.

In practice, differences in materials, substrates and actual on-site conditions are such that no warranty in respect of merchantability or of suitability for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

The user of the products must test the product's suitability for the intended application and purpose. Quartzline reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.