



# BEECK Pigment Concentrate

Mineral pigment concentrate for tinting one-pack BEECK silicate paints to VOB/C DIN 18363 2.4.1. High silicification activity and absolutely light fast

**BEECK ASF®**  
Aktiv Silikat Formulierung

## 1. Product Properties

High concentrated, stabilized preparation of finely grinded mineral pigments for tinting BEECK silicate paints for interior and exterior. Used for tinting in factory or at POS with common dispensing and mixing equipment, like rotary stirrers, shakers and metering systems. Maximum colour fastness A1 in accordance with BFS Information Sheet No. 26 thanks to pure mineral pigmentation. Pigments are bound inseparable in a porous silicate matrix which does not allow any fading, whitening or washing out of the pigment caused by weathering or sun light. Optimum use in BEECK ASF® Active Silicate Formulations like Beeckosil. Product only for commercial use. Do not use for full colour painting or for tinting on site, see BEECK Full Colour Silicate Paint and BEECK Universal Full Colour Silicate. Due to the heating effect, only use lightened coatings with lightness value (LV) > 40 on external thermal insulation composite systems (ETICS).

### 1.1. Composition

- Alkali resistant mineral pigments: lightfast and of natural origin
- Organic wetting agents etc. with low content < 5% (VOB/C DIN 18363 2.4.1.)
- Water borne, low VOC

### 1.2. Technical properties

#### 1.2.1. Overview

- For use on interior surfaces and on façades
- High efficient, yielding and intensely coloured
- Unlimited lightfastness and UV stability
- Reproducible tinting results by exact dosing
- Silicification active
- Non film-forming, no negative impact on building physics
- Non flammable
- Shading suitable for listed buildings
- Bronzing due to weak surface chalking typical for silicate paints
- Natural alkalinity helps to prevent algae and mould

#### 1.2.2. Important building physics characteristics\*

Parameter	Value	Conformity
Density 20°C:	1.4 – 2.3 kg / L	
pH value 20°C:	8 – 9	
Dynamic viscosity 20°C:	approx. 3.000 mPas	
Colour fastness:	Class A1	BFS Information Sheet No. 26
Grain size:	fine	EN 13300
Gloss level at 85°:	dull matt	EN ISO 2813
Flammability class:	A2 nonflammable	EN 13501-1, DIN 4102
VOC of final product (6 % colorant):	< 4 g / L	ChemVOCFarbV, Cat. A / c

\* Values depend significant on colour!

#### 1.2.3. Colour

- 10 full colour concentrates:  
S-01 Oxide Black, X-01 Oxide Yellow, Y-02 Light Yellow, X-03 Oxide Orange, R-01 Oxide Red, R-02 Wine Red, G-01 Oxide Green, T-01 Turquoise, U-01 Ultra Blue, V-01 Pink.
- BEECK Pigment Concentrate can be mixed together as required. Maximum addition 15 weight-% to one-pack BEECK silicate paints, e.g. Beeckosil. Notice specific tinting instructions for other than the given values.

## 2. Use

### 2.1. Substrate requirements

See Technical data sheet of the product used for.

### 2.4. Application instructions

#### 2.4.1. General information

See Technical data sheet of the product used for.

- Carefully cover surfaces which are not to be treated – especially glass, ceramics, window sills, expansion joints, lacquer and anodic coatings – and protect them from splashes. Provide personal protective equipment.



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## 2.4.2. Use as a colorant for tinting with factory equipment

BEECK Pigment Concentrate can be used for gravimetric and volumetric metering systems. Stir concentrate well with an electric stirrer, mixing paddle or shaker before use to ensure reproducible tinting results. Always close container airtight during breaks to avoid drying and evaporating. Remove any particles, skin and dried solids, do not stir in, sieve if necessary. When dosing manual, add the weighted amount of colorant directly into the white silicate base, without contacting mixing device or cladding with colorant. Immediately start mixing of batch after addition of total quantity of concentrate. Mixing time is depending on efficiency of device. Guiding value for stirring dispensers: minimum 8 minutes, for shakers 4 minutes. Make a test application to check colour tone and homogeneity of batch. Continue mixing process or force drive if any flow marks are still visible. If necessary, add further concentrate as outlined above to match target colour tone. Always carefully note and file total volume of colorant to have well-proven mixing recipes in case of subsequent supply. If any possible, mix total quantity in one batch. Ensure absolute colour compliance if tinting in several lots. Only use containers from the same production batch (lot no.) to coat self-contained areas, label this advice on the bucket.

BEECK Pigment Concentrate can be combined with e.g. BEECK Base V or Base TP. Add these bases to the white silicate paint before adding any colorant. Notice mixing instructions and recipes provided by BEECK application technique. Only use BEECK Pigment Concentrate for tinting products and bases approved by BEECK. BEECK cannot guarantee compatibility with non-system products or with deviant tinting processes. Never use "pure" BEECK Pigment Concentrate for full colour painting, lettering etc., use BEECK Full Colour Silicate Paint and BEECK Universal Full Colour Silicate instead.

## 3. Application Rate and Container Sizes

Maximum additional volume of BEECK Pigment Concentrate: 15 weight-% of total batch.

Non-binding guiding values for yield valid for approx. 5 % BEECK Pigment Concentrate (density 2.0 kg/L):

Pigment Concentrate:		Total quantity of mixed colour:
1 L	→	40 kg / 25 L
1 kg	→	20 kg / 12.5 L
25 kg	→	500 kg / 1 pallet (24 x 12.5 L)

*Container sizes for BEECK Pigment Concentrate: 25 kg (exception U-01 and V-01: 20 kg) / 1 L*

## 4. Cleaning

Thoroughly clean equipment, tools and soiled clothing with water immediately after use.

## 5. Storage

Stored cool and frost-free in the original air-tight closed container, BEECK Pigment Concentrate can be kept for at least 12 months.

## 6. Hazard notes, safety instructions and disposal

Comply with the EC Safety Data Sheet. Safety data sheet available on request. Hazard and precautionary statements: Harmful to aquatic life with long lasting effects. Keep out of reach of children. Do not get in eyes, on skin, or on clothing. Avoid release to the environment. Wear protective gloves. Dispose of contents/container to hazardous or special waste collection point. May produce an allergic reaction. May cause sensitization of susceptible persons. Carefully protect the area surrounding the surface to be coated, wash off splashes immediately with water. Waste disposal number: 080111

## 7. Declaration

This technical information is offered as advice based on our knowledge and practical experience. All information is provided without guarantee. It does not release the user from their responsibility to check the product suitability and application for the specific substrate on which it is to be used. Subject to change without notice as part of our product development. Non-system additives for tinting, thinning, etc. are not permitted. Check the colours before use. This information sheet automatically becomes invalid when a new edition is issued. The information in the current version of the EC Safety Data Sheets is binding for classification according to the Hazards identifications, disposal considerations, etc.