

# WEBER 4650 DESIGN COLOR



- Colored screed
- For special floor structures, for example Design floors
- Easy spreading
- Nearly crack-free floors without elevations on the edge
- Low alkaline pH 10.5-11 – Protects against alkaline degradation of floor adhesives (min. 5 mm thickness) -> healthy indoor air
- Certified EPD environmental product description
- The product is a declared item in the Supply Chain Declaration Portal (SCDP) for New Buildings generation 4.

## ABOUT THIS PRODUCT

Pumpable, through-coloured, fast setting and drying cementitious surface screed. Layer thickness 5-15 mm.

## AREA OF USE

The weber 4650 Design Color is a cement-based, colored, fast drying and self-smoothing floor screed. The product is designed to form a surface layer for dry areas such as commercial buildings, offices, schools, hotels and residential buildings. The surface is vivid and the end result is not to be compared to painted surfaces. 7 different colors in the product portfolio. The scratch resistance of

## PRODUCT SPECIFICATION

|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material consumption                                                        | approx. 1.7 kg/m <sup>2</sup> /1 mm layer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Recommended layer thickness                                                 | 5-15 mm. Optimal 6-8 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Recommended water content                                                   | 4.0 l/20 kg (20% of dry weight)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Application temperature                                                     | +10...+25 °C. Optimal +15...+20 °C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Curing time for covering                                                    | see brochure 8-29 weber 4650 Design Color Floor - Work Instructions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Curing time for pedestrian traffic                                          | approx. 2-4 h (+23 °C, 50% RH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Binder                                                                      | Special cement mixture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Filler                                                                      | Natural sand and limestone powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Additive                                                                    | Additives to improve adhesion and spreadability properties. Casein-free. Alkaline-resistant pigment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Adhesion strength 28 days                                                   | > 2.0 MPa (adhesion to concrete K30, EN 13813)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Compressive strength class                                                  | C 30 (EN 13813)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Flexural strength class                                                     | F 7 (EN 13813)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Shrinkage 28 days                                                           | < 0.4 mm/m (+23 °C, 50% RH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Reaction to fire (for exposive situations)                                  | A2 <sub>FL</sub> -s1 (EN 13501-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Fire resistance classification                                              | El 15 requirements are met with a layer thickness of 25 mm and El 30 requirements with a layer thickness of 35 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Covering class (against ignition)                                           | Can be used as a floor covering (protection against ignition) that replaces the K <sub>10</sub> cover when the layer thickness is at least 25 mm and that replaces the K <sub>230</sub> cover when the layer thickness is at least 35 mm.                                                                                                                                                                                                                                                                                                                            |
| Wear resistance to rolling wheel of screed material for wearing layer (RWA) | RWA10 (EN 13813)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Durability                                                                  | Water resistant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Water vapour diffusion coefficient (μ)                                      | 10 (dry) 6 (wet) (EN 12524:2001)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Flow rate according to Weber standard                                       | 230-250 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| The pH of the cured material                                                | 10.5-11. Low alkaline.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Thermal conductivity                                                        | 1 W/mK (EN 12524:2001)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Specific thermal capacity (Cp)                                              | 1 J/(g°C) (EN 12524:2001)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Color                                                                       | F10 Yellow, F20 Beige, F30 Blue, F40 Terracotta, G10 Offwhite, G20 Light Grey, G40 Warm Grey                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Storage conditions                                                          | Shelf life is 12 months (20 kg) or 3 months (1000 kg sack) from the date of manufacture (unopened package, dry space). Longer storage will weaken the strength and spreadability characteristics of the product.                                                                                                                                                                                                                                                                                                                                                     |
| Package                                                                     | 20 kg plastic sack. 1000 kg large sack.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| GTIN-codes                                                                  | 6415910023812 (F10 Yellow, 20 kg)<br>6415910019747 (F10 Yellow, 1000 kg)<br>6415910023652 (F20 Beige, 20 kg)<br>6415990704007 (F20 Beige, 1000 kg)<br>6415910023676 (F30 Blue, 20 kg)<br>6415990703833 (F30 Blue, 1000 kg)<br>6415910023836 (F40 Terracotta, 20 kg)<br>6415990703840 (F40 Terracotta, 1000 kg)<br>6415910023713 (G10 Offwhite, 20 kg)<br>6415990703864 (G10 Offwhite, 1000 kg)<br>6415910023737 (G20 Light Grey, 20 kg)<br>6415990703819 (G20 Light Grey, 1000 kg)<br>6415910023751 (G40 Warm Grey, 20 kg)<br>6415990703888 (G40 Warm Grey, 1000 kg) |
| Certifications                                                              | CE, M1, EC1+, EPD, Key Flag Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

the surface is more equivalent to parquet floors rather than to tiling floors. The surface treatment of the product is to be chosen depending on the use.

#### SUBSTRATE

Suitable substrates are weber 110 fine, weber 120 reno, weber 130 core, weber 140 nova, weber 4601, weber 4310, weber 4320 or concrete with a tensile strength of > 1.5 MN/m<sup>2</sup>.

#### WORK INSTRUCTIONS

For more detailed working instructions, see brochure 8-29 weber 4650 Design Color Floor - Work Instructions.

#### DISCLAIMER

As there are different conditions at every opportunity, Weber can not be held responsible for anything

other than the information provided under the heading "Product Specification". Examples of information and circumstances, which are outside Saint-Gobain (whether specifically stated or not) include storage, construction, processing, interoperability with other products, workmanship and local conditions.