

## VHCT ARCHITECTURAL CONCRETE SLABS DATA SHEET

### PRODUCT DESCRIPTION:

VHCT architectural concrete is designed for the decoration of interior walls and façades according to the applied uniform technical specification: PN-EN 14992+A1:2012. Performed with the use of the casting method, it is characterized by the following properties: diversified structure, shades characteristic for natural stone, gentle local discoloration, aesthetic and decorative finishing with up to (+-) 3 mm deviation in dimensions. VHCT concrete used for the manufacturing of concrete slabs represents high quality, it has passed product type tests and is subject to internal as well as external quality inspection.

### I. Before installation.

1. Potential damages and defects of architectural concrete slabs shall be notified before installation.
2. Damages occurring during transport shall be notified upon receipt from the courier together with preparing the damage report, however not later than within 3 days from the delivery of the product, to e-mail address [biuro@vhct.pl](mailto:biuro@vhct.pl)
3. In order to preserve natural look of the wall it is recommended to choose slabs from different places on the pallet at the same time. At this stage it is necessary to check the colors of all slabs again.
4. The length of slabs may differ slightly. It is necessary to level the slabs on the wall similarly to the procedure applied to natural stone.
5. Carefully remove dust and paint from the cement and lime wall. Remove dust from the slabs, particularly from the gluing side.
6. Check if the wall is load-bearing and appropriately primed. "PERFECT GRUNT VHCT" is recommended for priming, containing much more resin than other primers available on the market. After priming it is recommended to wait 24 hours before gluing the slabs until the primer dries.
7. Arrange the slabs in front of the wall in order to match them to the wall according to the pattern and shade. After arranging the slabs before installation, check color arrangement and slab type again.
8. Impregnate in horizontal position exclusively with "VHCT PERFECT IMPREGNAT" – (before installation)
9. Impregnation should be performed first on two or three slabs and after about 2 hours, if the slabs dry on their entire surface (without traces of wet impregnate), continue the impregnation on subsequent slabs. Otherwise call VHCT customer service department at +48 781 70 70 74 for consultation.

### II. Storage

1. Store the slabs separately in the vertical position, supported on the wall with longer slab edge in a dry and ventilated place or in a dry and ventilated place on a pallet no longer than 2 weeks.
2. Upon the receipt of delivery, immediately protect them against rain and moisture.
3. Packaging method blocks the access of air into slabs, which may influence the color or may damage the slabs if points 1 and 2 are not respected.

### III. Installation

1. **For gluing concrete slabs please use:**  
"VHCT EXTRA SZYBKI SILVER" cement, concrete and ceramic substrates – characterized by accelerated bonding and reduced open time  
"VHCT EXTRA ELASTYCZNY SILVER"  
designed in particular for drywall substrates – characterized by accelerated bonding and reduced open time, contains special flexibility additive  
"VHCT TOP 1"  
**two-component glue with increased resin content**  
Intended for the outside use, for smaller formats and difficult substrates, e.g. fencing
2. **Follow glue manufacturer's recommendations, in particular when it comes to water content!**  
**So called notched gluing of dry panels is recommended**
  - a) the glue shall cover at least 70% of slab surface in contact with the wall
  - b) performing glue „frame" on the slab is forbidden
  - c) do not use more than 10 mm of glue

- d) do not hit the slabs with a hammer or hand while gluing
  - e) while attaching a slab to the wall, perform minimal circular movement in order to fix the slab and press the glue
  - f) install the slabs with their temperature adjusted to the temperature of interior where they are installed
  - g) install at temperatures between 15 and 25 degrees Celsius
  - h) the notch should be applied so that it does not cross, i.e. from the left to the right or from top to bottom (or bottom up), but never applying both methods at the same time!!!
3. Gypsum plaster and gypsum finish walls do not form stable substrate and they require individual consultation with an expert.  
Example for walls with gypsum plaster: properly anchored drywall + VHCT prime + VHCT SILVER glue or appropriately grinded OSB + VHCT prime + MAMUT-type polymer glue
  4. Always use clean gloves during installation
  5. Remove contamination immediately after it appears (before drying)
  6. Install architectural concrete slabs with 3-4 mm gap between the slabs. Leave it without filling in, respect dilatation from the walls and ceiling.
  7. Any concrete works shall be performed with the use of diamond tools. Choose drills appropriate for use in concrete without impact
  8. Cleaning agents, e.g. water with soap, fine 2000 polishing sandpaper
  9. Installation on façades shall be performed according to the design. Adjust the choice of system to wall and façade
  10. Declared usable properties:

<i>General characteristics</i>	<i>Usable properties</i>	<i>Unified technical specification</i>
Concrete cladding element	Resistance class 30/37	PN-EN 14992+A1:2012 PN-EN 13369:2013-09 PN-EN 206:2016-12
Bending tensile strength	≥ 2.0 (MPa)	
Density class	1.8	
Dimensions tolerance	Class A (±3 mm)	
Reaction to fire	Euroclass A1	
Steam permeability coefficient	μ = 5/15	
Stability of dimensions under the influence of moisture and drying. Contraction caused by drying (inside/outside)	0.60/0.34 (mm/m)	
Isolation from direct air sounds	Gross density ≤ 1800 kg/m <sup>3</sup>	
Resistance to freezing and defrosting with the participation of deicing agents	< 0.6 kg/m <sup>2</sup>	

**All works shall be performed according to construction best practices. The description above has been prepared according to the state of manufacturer's knowledge and experience. Always check individual installation conditions on site.**

\* concrete slabs for the facade can be installed taking into account the limits in slab dimensions for the glue. Ask the designer or manufacturer for installation details.

Submit questions and doubts to the address: [biuro@vhct.pl](mailto:biuro@vhct.pl)

