



## INSTALLATION INSTRUCTIONS

### Ceramin® VARIO / NEO Vario / ECO.Vario

#### Application areas:

Ceramin® VARIO is suitable as a wall and floor covering in household areas, which are subject to the effects of splashing water, such as wall surfaces above bathtubs and showers, as well as floor surfaces. Ceramin® VARIO is not suitable for outdoor use.

An installation in the area of cookers with an open flame is not permitted. When installing heating fireplaces or tiled stoves, a minimum clearance of 40 cm must be maintained on the floor, and a clearance of 80 cm between the wall and the stove / stovepipe (see Illus. 4).

#### Important information:

In wet areas, professional waterproofing in conformity with the provisions of DIN 18534, "Waterproofing for indoor applications", must be ensured. (See Illus. 1). Full-surface bonding is mandatory at this location. The area that is directly exposed to splashing water must be separated by a construction and sealed off, with regard to the adjoining wall surfaces. The shower basin / bathtub edge must be separate from a finished wall surface by means of a construction. Sealing is carried out in two steps, with the insertion of a suitable rounded profile (1) for the grooves (see Illus. 5).

Please ensure an even distribution of the adhesive and, as far as possible, a clearly pronounced, horizontal positioning of the grooves. Humidity is required, whenever Classen MultiConnect is used for hardening the adhesive. On impermeable sub-surfaces, the backsides of the elements must be moistened.

We recommend gluing Ceramin® VARIO in a half-offset position.

The Ceramin® VARIO tiles are provided with an interlocking profile (tongue-and-groove). A small V-shaped groove has been incorporated in the profile. When glued to a wall, the tongue of the profile always faces upwards and the groove downwards, so that water can drain optimally. Ceramin® VARIO tiles must be inserted into a bed of adhesive with a slightly sliding motion, where the tile is aligned and pressed down firmly (see Illus. 2). During installation, you must ensure that the groove and the tongue have been pushed into one another completely.

Circumferential grooves to adjoining surfaces should amount to at least 5 mm and should be grouted with silicone, after a minimum drying time of 12 hours. For sealing the inner corners, please always use "natural stone silicone". Outer corners can be created by using commercially available profiles.

#### Preparation:

The subsurface must be stable, dry, clean (dust- and grease-free), level, bend-resistant and free of loose parts. Only waterproof paints may have been used on the subsurface. Please check the processing instructions of the manufacturer of the adhesive, to see if preparatory treatment is required. Expansion seams that are present on the construction site must be integrated. Unevennesses of more than 2 mm/m, and wavy deposits of more than 0.5 mm/cm, must be evened out with a suitable filling compound.

In wet areas, professional waterproofing must be ensured, in conformity with the provisions of DIN 18534 "Waterproofing for indoor applications".

You will find a table of released adhesive substances and sealant systems on the website [www.classen.de](http://www.classen.de), under "Service / Downloads/ Technical data sheets".

In case of any questions, please take up contact with our technical Customer Service Department. Recesses for pipes, armature connections and other passages must be sealed off with sealing collars. Take special care to ensure a completely closed and compact formation of the connection joints.

### Installation:

If you want to cover the walls and the floor with Ceramin® VARIO, start with the wall and subsequently work on the floor.

“Classen MultiConnect“ has been approved for gluing the Ceramin® VARIO plates. **Please observe the processing guidelines, which are provided by the manufacturer of the adhesive!**

If possible, expansion grooves to adjoining rooms should be positioned under the door panel.

#### 1. Partial bonding with Classen MultiConnect, using a cartridge:

Adhesive can be applied with a cartridge to the backside of Ceramin® VARIO tiles, which are installed outside of wet areas (see Illus. 3).

#### 2. Full-surface bonding with Classen MultiConnect:

Full-surface bonding must be used in floor areas or on walls, which are located in wet areas. For full-surface bonding and depending on the subsurface, the correct type of toothed spatula must be selected. The subsurface must have been moistened sufficiently, so that a full-surface contact is ensured between the adhesive and the tile. Ceramin® VARIO is inserted and firmly pressed down in the bed of adhesive. Remove adhesive rests from the surface as quickly as possible.

If one has to trim the Ceramin® VARIO tiles, then a ruler or a try square has to be used for marking out a line that can be scratched out two or three times with a cutter knife, after which the tile can be broken along that line. One can also use a circular saw, a jigsaw or a drill for working on the tile. Ceramin® VARIO is suitable for use with water-bearing floor heating facilities, up to a contact temperature of max. 27°C / 80°F.

### Cleaning and maintenance tips:

Ceramin® VARIO is easily cleaned with all commercially available cleaning agents. Aggressive cleaners, abrasive scouring agents or steel wool may not be used. When Ceramin® VARIO is used in the kitchen, remove greasy residues as quickly as possible, as later cleaning of these can be exceedingly difficult. If water residues can be removed in a timely manner, this prevents the formation of lime deposits at the edges.

