betasil® VARIO Instructions for use (GB)

müller-omicron DENTAL CE

Elastomeric precision impression material on polyvinyl siloxane basis, addition-curing.

Thank you for your confidence in us. With the betasil® vario impression system you have made the right decision. Read these instructions for use carefully prior to use.
betasil® vario products are intended exclusively for dental use. Responsible and careful working with the medicinal product is assumed.

Product description
betasil® vario is an impression material that meets the highest demands. The putty wash materials provide very high thixotropism, outstanding resilience and marked hydrophilic properties. All betasil® vario materials have a thermoactiviating formulation which offers the user a variable processing time and thus the greatest processing comfort. They are patient-friendly as they remain in the mouth for only the same short time regardless of when the impression tray is placed in the mouth. The system is rounded off by the highly contrasting colour system and the pleasant mild mint flavour.

Indication:
Crowns and bridges, partial crowns, inlays, onlays, implants, transfer impressions.

Impression technique:
- betasil® vario putty: Preliminary impression material for the putty wash technique (2-step), situation impressions
- betasil® vario putty soft / putty soft, 5:1 / heavy: Basic material for the simultaneous putty wash technique (1-step); situation impressions
- betasil® vario medium/ light / light fast set: Wash material for putty wash impressions and simultaneous putty wash technique material
- betasil® vario implant: Precision silicone for monophasal impressions (can be used as tray- and/or syringe material)

Dispensing / processing:
- betasil® vario putty materials for manual mixing applications
  Remove the required amount of betasil® vario putty with the measuring spoon in a ratio of 1:1 of the catalyst (8 ml / 14 g) and base (8 ml / 14 g). Combine the two components, pull the putty out to form a small cord, fold it together again and knead with the tips of the fingers. Repeat this procedure several times until a homogeneous shade is obtained, but for at least 30 seconds. Observe the mixing time. Close containers tightly immediately after use and do not confuse lid and measuring spoon.

- betasil® vario materials in a 5:1- full cartridge system
  The 5:1-full cartridges are suitable for use in all common mixers for 5:1 cartridge systems. Place the 5:1 full cartridge in the device (please follow the manufacturer's instructions on using the device). Then start the device and let material flow out until material is flowing evenly from both orifices. Now attach the mixing tip to the orifice and check that it is correctly in place. Then push the fix cap over the mixing tip as far as it will go and turn it to the right until it locks. Start the mixer again and dispense the desired quantity of material into an impression tray or into a separate intraoral impression syringe (the latter is only possible with betasil® vario implant). The used mixing tip stays on the cartridge and acts as a cap. Prior to the next use, loosen and remove the fix cap and remove the used mixing tip, check the orifices for the plug that forms in very rare cases, clean if necessary and proceed as usual.

- betasil® vario materials in 50ml safety cartridges
  Place the cartrige in the 1:1 mixing gun, remove the cap and when using for the first time express material until material is flowing evenly from both orifices. Now place the mixing tip on the orifice (ensure that the colour code of the cap and mixing tip are identical) and ensure that it is on correctly. To close it, turn the tip 90° clockwise. Operate the mixing gun again and dispense material in the desired amount. The used mixing tip stays on the cartridge and acts as a cap. Prior to the next use, remove the used mixing tip and check the orifices for the plug that forms in very rare cases, if necessary, clean and proceed as usual.

Impression procedure:
When using a suitable tray adhesive, please follow the manufacturer's instructions for use. Place the tray loaded with betasil® vario into the mouth, press it on briefly and then hold it in situ until it has set fully. To check the degree of hardening always check the material in the mouth. When using the putty wash technique (two-step) the first impression must always be cleaned and dried in order to ensure curing with the putty wash material.

Disinfection:
The impressions can be disinfected with 2% glutardialdehyde solution. After removing from the mouth, rinse the impression under running water for 15 seconds. Then disinfect the impression by dipping it completely into disinfectant. Always follow the disinfectant manufacturer'instructions. We recommend the products Dentoprint MD liquid / MD pur from Müller-Omicron GmbH & Co. KG.
You will find further information at www.dgzmk.de, or J. Prosthet. Dent. 1999 May, 81(5), 621.

Electroplating:
The impressions can be electroplated with copper or silver in the usual baths.

Model fabrication:
The impression can be poured after only 60 minutes. There are no other time restrictions. All class 3 and 4 gypsums that comply with ISO 6873 can be used. The impressions can be cast several times.

Working and safety instructions:
The above-listed products must be used only in accordance with their instructions for use. Any other use, which is not in agreement with these instructions for use, is the sole responsibility of the user.
- Close containers tightly immediately after use and do not confuse lid and measuring spoon.
- Solutions used prior to taking the impression such as oral rinses can interfere with the setting reaction and must be removed tho roughly. Retraction sutures containing iron also have a negative effect on setting.
- Contact between the material and certain types of gloves, e.g. latex gloves, should be avoided as the catalyst can be damaged. We recommend vinyl or PE-based gloves.
- Do not leave any impression material residues in the oral cavity.
- Contact with clothing should be avoided as cured silicones are chemically stable and produce marks that cannot be removed.
- Do not use betasil® vario products with polyether, polysulphides or condensation-curing silicones.
- To prevent possible incompatibilities, do not combine betasil® vario products with A silicones from other manufacturers.
- Storage: store between 5 °C and 27 °C.
- Shelf life: 2 years from date of manufacture; see date printed on label. Do not use after the expiry date.
- Processing temperature: room temperature between 18 °C and 25 °C.

Warnings:
- **Eye contact:** avoid eye contact with the impression material, if necessary, irrigate the eyes immediately with plenty of clear water and consult an ophthalmologist promptly.
- **Swallowing:** after swallowing, rinse out the mouth and drink plenty of water. Always contact a doctor.
- **Allergic reactions:** allergic reactions can occur in sensitive person. In case of doubt, consult a dermatologist or allergologist. If acute allergic reactions should occur during the treatment, treatment with the product should be stopped immediately.

Please note the warning in the safety data sheet also.
Information at www.mueller-omicron.de

Errors and changes reserved.

Technical data and product properties

Technical data	betasil® vario putty / putty Soft	betasil® vario putty soft, 5:1	betasil® vario heavy	betasil® vario medium	betasil® vario light / light fast set	betasil® vario implant
Consistency / EN ISO 4823	Kneadable / Type 0	Kneadable / Type 0	Heavy bodied / Type1	Medium bodied / Type 2	Light bodied / Type 3	Medium bodied / Type 2
Colour	Light green Blue	Blue	Lilac-Blue	Lilac	Pink	Blue
Dosage (1:1) / mixing time	30 sec.	automatic	automatic	automatic	automatic	automatic
Variable working time including mixing time*	up to 2 min.	up to 2 min.	up to 2 min. 15 sec.	up to 2 min.	up to 2 min. up to 1 min. (fast set)	up to 2 min.
Time in mouth	2 min.	2 min.	2 min. 15 sec.	2 min.	2 min. 1 min. (fast set)	2 min.
Total setting time	up to 4 min.	up to 4 min.	up to 4 min. 30 sec.	up to 4 min.	up to 4 Min. 2 min. (fast set)	up to 4 min.
Deformation under pressure	2 %	2.5 %	2 %	2 %	3 %	2.5 %
Recovery from deformation	99.4 %	99.5 %	99.6 %	99.6 %	99.6 %	99.7 %
Linear dimensional change	0.2 %	0.2 %	0.1 %	0.13 %	0.16 %	0.2 %
Flavour	mint	mint	neutral	mint	mint	mint

* at 23 °C / 73.4 °F. The time specifications in the upper table relate to a relative humidity of 50 +/- 10 %. In general, higher temperatures accelerate while lower temperatures delay the setting.