





Open Sterile Pouch

- Open peel pouch from corners and aseptically remove sterile tray.
- Remove applicator from tray.



Moisten Granules

- Using a syringe, slowly inject sterile saline through the cap membrane.
- Ensure that granules are evenly moistened by turning and tapping the applicator.

Saline volume is roughly 1/3 of granule volume.

Note: Saline injection may increase pressure inside the applicator. Pressure can be released by detaching injection needle or unscrewing applicator cap.



Install Shovel

- To prevent spilling, hold applicator vertically with the cap end up.
- Unscrew cap and remove membrane.
- Screw shovel onto applicator





Implant Granules

- Turn applicator to a horizontal position and push plunger to slide moistened granules onto the shovel.
- Align applicator over defect site and implant moistened granules into defect with the aid of a sterile instrument.
- Gently pack implanted granules evenly throughout defect.

Note: Any granules that may have fallen outside the bone defect should be removed.

X-RAYS



Multiple revisions, persistence of bacteria and implantation of antibiotic releasing beads



Thorough debridement was performed and 10cc S53P4 bioactive glass was implanted



12 months post-op



18 months post-op

Pictures: Courtesy of BG Unfallklinik Duisburg, Germany

Small Granules 0.5 - 0.8mm

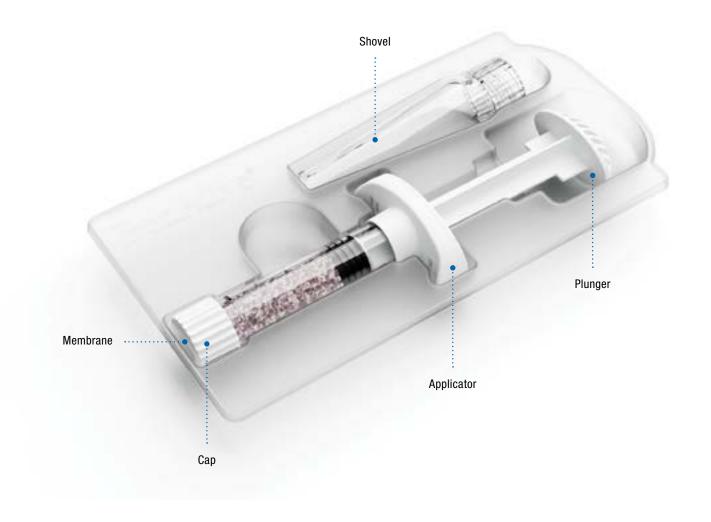
14120 - 2.5cc 14130 - 5cc



Large Granules 1.0 - 2.0mm

14330 - 5cc 14340 - 10cc







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The instructions presented are general recommendations. The decision to use a specific device and/or the surgical technique must be based on sound medical judgment by the surgeon that takes into consideration factors such as the circumstances and configuration of the injury or condition.

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For indications, contraindications, warnings and precautions related to Bonalive® Orthopedics granules reference IFU within product package.