# CERAMENT® G
with Gentamicin

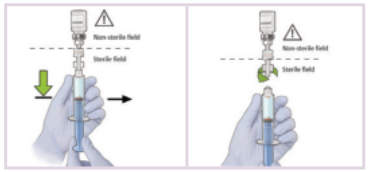
MIXING TIPS GUIDE

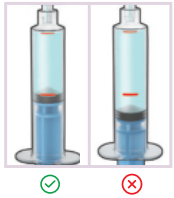
## The first and only FDA authorized, injectable antibiotic-eluting bone graft substitute

### **STEP 1:** PREPARING THE CERAMENT® GENTAMICIN SOLUTION

**IMPORTANT:**
*The surface of the saline vial is non-sterile, so the non-sterile surgical assistant must remove the transparent cap*

*The sterile surgical assistant should insert the dispensing pin and attach the syringe while the non-sterile assistant stabilizes the vial*





**TRANSFER SALINE LIQUID INTO SYRINGE**

- Sterile assistant attaches the syringe to the dispensing pin and withdraws liquid up to the red mark on the syringe
- Stop filling syringe when liquid reaches red line - there will be saline left in the vial
- Remove saline vial and dispensing pin from sterile field when done

**INJECT SALINE INTO GENTAMICIN VIAL**

**GENTLY SHAKE GENTAMICIN VIAL TO DISSOLVE**

- Ensure all gentamicin powder is dissolved in saline

**WITHDRAW SOLUTION BACK INTO SYRINGE**

- Ensure all gentamicin solution is withdrawn into syringe

### **STEP 2:** MIXING CERAMENT® G

**MIXING**

- Attach blue valve with clear end towards the powder-filled mixing syringe, and blue end towards the gentamicin solution syringe
- Remove the red ring before mixing
- Ensure the scrub nurse has the correct needle/cannula, minimum 16G, plus one extra
- Start timer as you begin mixing

**30s**

**TRANSFER PASTE TO INJECTION SYRINGE**

- Stop Mixing
- Lock plunger by turning blue collar clockwise
- Transfer all paste from the mixing syringe to the injection syringe with the numbers facing towards the user
- When full, paste will begin to ooze from under sleeve. Stop filling when this occurs

**~1min**

**WAIT**

- CERAMENT® becomes viscous during this time, and will achieve optimum injectability at 4 minutes
- Remove red plunger stopper from injection syringe

**~4min**

**INJECT**

- Begin injecting CERAMENT
- CERAMENT G is not moldable
- Tip: if all the paste is not needed, inject any remaining onto the blister pack - this can be gently implanted into the defect later if needed

**~7min**

**SETTING**

- Do not touch CERAMENT or manipulate the tissues surrounding the defect during setting
- At 8-9 minutes, CERAMENT G can be gently compressed to maximize interdigitation into surrounding bone

**~15min**

**WOUND CLOSURE, DRILLING & SCREW INSERTION**

- Drill or insert screws if required, or close the wound

BONESUPPORT™

**ADDITIONAL RESOURCES:**
Review our mixing video here:
(877) 719-6718
us.sales@bonesupport.com

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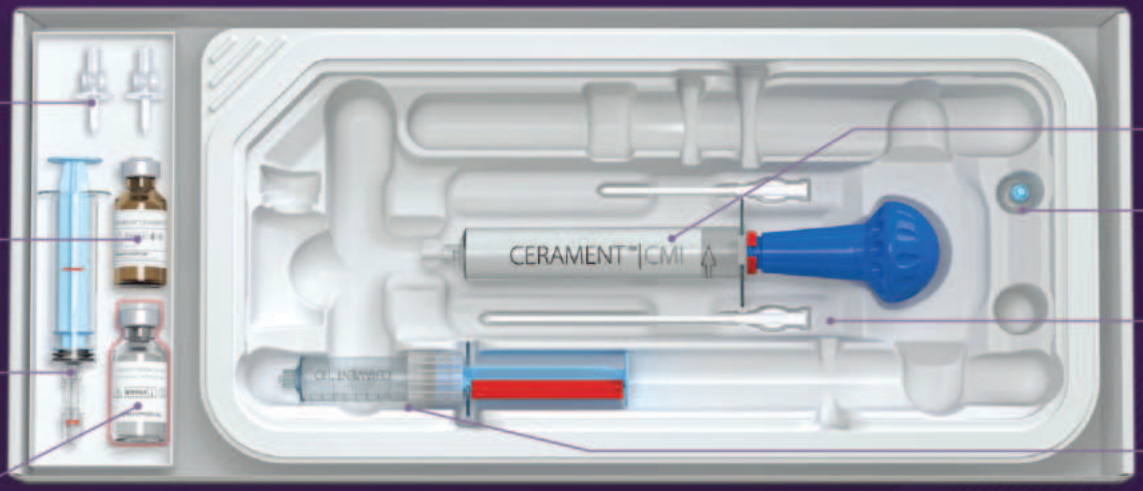
**BONESUPPORT Dispensing Pin**
(DP) ventilated spike

**CERAMENT® GENTAMICIN**
Glass vial of gentamicin sulfate, provides 17.5mg gentamicin/mL paste

**BONESUPPORT SYRINGE**
Features the red line, used to prepare the gentamicin solution

**CERAMENT® MIXING LIQUID***
Glass vial of saline (sodium chloride) 9mg/mL liquid *Non surface sterile*




**CERAMENT® CMI**
Powder-filled combined mixing and injection device – closed system

**Valve**

**Tip Extenders** x2
(100/50mm – 11G)

**CERAMENT® ID**
Syringe allows for easy injection with included tip extenders

## SURGICAL TIPS

**Before applying CERAMENT G:**

- Ensure appropriate debridement of the defect and removal of blood clots and tissue fragments. CERAMENT® G must be in contact with living bone for bone remodeling to occur.
- Ensure the defect is as dry as possible, consider using a tourniquet and gauze.

**During application:**

- If a dry field is not possible, inject all the CERAMENT® G at 4 minutes and wait until 8-9 minutes has passed, then gently compress using gauze.
- Start injecting at the distal part of the defect and continue injecting as you withdraw proximally.
- In percutaneous procedures, inject under fluoroscopy.
- Completely fill the defect, but do not overfill.
- Do not use in joints or soft tissues.

**After application:**

- Avoid the use of active suction drainage, as this may decrease the local concentration of gentamicin.

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