



# MIIG<sup>®</sup> X3 & MIIG<sup>®</sup> X3 HIVISC PASTES

MIXING INSTRUCTIONS  
129611-7

The following languages are included in this packet:

English (en)

For additional languages, visit our website [www.wmt.com](http://www.wmt.com).

Then click on the **Prescribing Information** option.

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**\* The CE-Marking of Conformity is applied per catalog number and  
appears on the outer label, if applicable.**

R<sub>x</sub> ONLY

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**MIIG® X3  
&  
MIIG® X3 HiVISC PASTES  
DIRECTIONS FOR USE/ MIXING INSTRUCTIONS  
(129611-7)**

### Indications

MIIG® X3 and MIIG® X3 HiVISC pastes are intended to be injected into open bone voids/gaps that are not intrinsic to the stability of bony structure of the skeletal system (i.e., the extremities, spine, and pelvis) and to cure *in-situ*. These open bone voids may be surgically created osseous defects or osseous defects created from traumatic injury to the bone. MIIG® X3 and MIIG® X3 HiVISC pastes provide a bone void filler that resorbs and is replaced with bone during the healing process.

MIIG® X3 and MIIG® X3 HiVISC pastes cured *in situ* provide an open void/gap filler that can augment provisional hardware (e.g., K-Wires) to help support bone fragments during the surgical procedure. The cured paste acts only as a temporary support media and is not intended to provide structural support during the healing process.

**NOTE:** Do not add any additional substances to the paste. Using alternative mixing solutions and/or adding other substances to the mixture may alter the safety and effectiveness of this product. Some substances, such as bone marrow and blood, will prevent the paste from setting.

### Preparation of Implant site and Accessory



#### Step 1

- Pre-place needle in defect under fluoroscopic guidance.



#### Step 2

- Remove plunger from syringe and set aside. Secure RED syringe cap to syringe.



#### Step 3

- Insert mixing paddle into mixer top, and connect vacuum hose to vacuum source.
- Vacuum connection to mixer is on the mixer top.

### Mix according to directions listed in Steps 4-7.



#### Step 4

- Add mixing solution to bowl.



#### Step 5

- Add MIIG® X3 powder to water in bowl.



#### Step 6

- Assemble mixer top with vacuum hose to bowl. Secure vacuum seal by turning mixer top clockwise.



### Step 7

- Mix MIIG® X3 graft in vacuum mixer: Set vacuum pump [-22inHg (-11psi)] and mix calcium sulfate paste in one direction for 30 seconds. While mixing, tap bowl on hard surface to keep paste in mixing zone.



### Step 8

- Remove vacuum hose from the mixer to release vacuum, and remove mixer top. Use supplied spatula to transfer MIIG® X3 paste to syringe.



### Step 9

- Replace plunger, invert syringe, and tap to move paste down onto plunger head.



### Step 10

- Remove RED syringe cap, and advance plunger to remove air.

Total Injection Time in 10cc & 30cc syringes	
MIIG® X3 Paste	~2.5 minutes
MIIG® X3 HiVisc Paste	~8.0 minutes



### Step 11 FOR MIIG® X3 HiVisc paste ONLY

For more operative flexibility in highly comminuted fractures, the MIIG® X3 HiVisc paste may be transferred to the five smaller 3cc syringes if desired. Remove the plungers from the five, 3cc syringes. Take the filled 30cc syringe, and backload each 3cc syringe with approximately 3cc of paste. Replace the plungers and advance to remove air.

Total Injection Time in the 3cc syringe	
MIIG® X3 HiVisc Paste	~10 minutes



### Step 12

- Dock the syringe to the pre-placed needle. Begin injection with steady thumb pressure. Avoid overfilling the bone void or pressurizing the treatment site. If multiple syringes are used, reposition the needle under fluoroscopic control as needed. Repeat Step 12.

**NOTE:** Residual material may be left in syringe. The amount of remaining material is relative to user's adherence to the mixing and ejecting times outlined in these instructions.

**CAUTION:** The paste should be allowed to set prior to definitive hardware placement. Do not disturb while curing.

Set Time	
MIIG® X3 Paste	~11 minutes
MIIG® X3 HiVisc Paste	~22 minutes

One or more of the following patents may apply to Wright Medical Technology products: 5,614,206; 5,807,567; 6,030,636; 6,753,007; 7,066,942. Additional patents pending.