Osteo-Site® Cement
Features & Benefits

An Innovative Range of PMMA Bone Cements
Indicated for Vertebroplasty and Kyphoplasty

- Premeasured one-to-one ratio components (polymer & monomer) ready-to-use and easy to mix
- Low or medium viscosity enabling sufficient injection time (From 10 to 20 min)
- High rate of radiopaque agent providing safe radiological control

Indications

<table>
<thead>
<tr>
<th></th>
<th>VERTEFIX PLUS</th>
<th>OSTEOFIX</th>
<th>THERMALFIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERTEBROPLASTY</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>KYPHOPLASTY</td>
<td></td>
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</table>

Features

<table>
<thead>
<tr>
<th>Features</th>
<th>VERTEFIX PLUS</th>
<th>OSTEOFIX</th>
<th>THERMALFIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIXED VOLUME</td>
<td>16CC</td>
<td>16CC</td>
<td>16CC</td>
</tr>
<tr>
<td>RADIOPACITY</td>
<td>35%</td>
<td>45%</td>
<td>50%</td>
</tr>
<tr>
<td>MAX TEMPERATURE</td>
<td>59° C / 138.2° F</td>
<td>40° C / 104.0° F</td>
<td>88° C / 190.4° F</td>
</tr>
<tr>
<td>VISCOSITY</td>
<td>LOW</td>
<td>MEDIUM</td>
<td>LOW</td>
</tr>
<tr>
<td>MIXING TIME</td>
<td>30 SEC</td>
<td>30 SEC</td>
<td>45 SEC</td>
</tr>
<tr>
<td>TRANSFER TIME</td>
<td>1.5 MIN</td>
<td>5.5 MIN</td>
<td>2.25 MIN</td>
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<tr>
<td>WAITING TIME</td>
<td>2 MIN</td>
<td>0 MIN</td>
<td>0 MIN</td>
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<tr>
<td>INJECTION TIME</td>
<td>8 MIN</td>
<td>15.5 MIN</td>
<td>9.5 MIN</td>
</tr>
<tr>
<td>MECHANICAL PROPERTIES</td>
<td>COMPLIANT W/ISO 5833</td>
<td>COMPLIANT W/ISO 5833</td>
<td>COMPLIANT W/ISO 5833</td>
</tr>
</tbody>
</table>
Vertefix® Plus

Biocompatible Bone Cement

Used for fixation of pathological fractures of the vertebral body using vertebroplasty and kyphoplasty procedures, as well as injection into pedicular screws.

- Two components (powder & liquid) PMMA bone cement
- Cement components are easy to mix, no measurement is required
- Injection time: 8 minutes. Yield: 16 cc of PMMA

Supplied sterile in box. Intended for one-time use.

**DELIVERY TECHNIQUE**

**Vertefix® Needle**

**SIZE**

11G & 13G

- Vertebroplasty
- Kyphoplasty

**INDICATIONS**

- Painful vertebral compression fractures, benign lesions (hemangioma)
- Malignant lesions (Metastatic cancer, myeloma, tumors)
- Treatment of acute & chronic instabilities
- Deformities of the thoracic, lumbar and sacral spine
- Osteoporosis, osteopenia, metastatic disease

**ORDER INFORMATION**

Vertefix® Plus

<table>
<thead>
<tr>
<th>SET ORDER NUMBER</th>
<th>MIXED VOLUME</th>
<th>CEMENT RADIOPACITY</th>
<th>MAX TEMPERATURE</th>
<th>VISCOSITY</th>
<th>GLOBAL PRODUCT NUMBER</th>
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<tbody>
<tr>
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</table>

Not all parts numbers shown may be approved for sale in all regulatory jurisdictions. Parts and configurations are subject to change without notification. Please consult with your Account Representative for details.
Osteofix®

Low Exothermic Bone Cement

Used for fixation of pathological fractures of the vertebral body using vertebroplasty and kyphoplasty procedures.

- Two components (powder & liquid) PMMA bone cement
- Cement components are easy to mix, no measurement is required
- Injection time: 15.5 minutes. Yield: 16 cc of PMMA

Supplied sterile in box. Intended for one-time use.

**DELIVERY TECHNIQUE**

**Osteo-Site® Needle**

**SIZE**

11G

- Vertebroplasty
- Kyphoplasty

**INDICATIONS**

- Painful vertebral compression fractures, benign lesions (hemangioma)
- Malignant lesions (Metastatic cancer, myeloma, tumors)
- Treatment of acute & chronic instabilities
- Deformities of the thoracic, lumbar and sacral spine
- Osteoporosis, osteopenia, metastatic disease

Medium viscosity enables **long working time** and gives the possibility of **multi-level injection procedures**.

The **high rate** of radio-pacifier provides good **visualisation guidance**

**ORDER INFORMATION**

**Osteofix®**

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<tr>
<th>SET ORDER NUMBER</th>
<th>MIXED VOLUME</th>
<th>CEMENT RADIOPACITY</th>
<th>MAX TEMPERATURE</th>
<th>VISCOITY</th>
<th>GLOBAL PRODUCT NUMBER</th>
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</thead>
<tbody>
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</table>

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Thermalfix®

High Exothermic Bone Cement

Used for fixation of pathological fractures of the vertebral body using vertebroplasty and kyphoplasty procedures.

- Two components (powder & liquid) PMMA bone cement
- Cement components are easy to mix, no measurement is required
- Injection time: 9.5 minutes. Yield: 16 cc of PMMA

Supplied sterile in box. Intended for one-time use.

**INDICATIONS**
- Painful vertebral compression fractures, benign lesions (hemangioma)
- Malignant lesions (Spinal metastases, myeloma)

**DELIVERY TECHNIQUE**

<table>
<thead>
<tr>
<th>Osteo-Site® Needle</th>
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</tr>
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<tbody>
<tr>
<td></td>
<td>11G &amp; 13G</td>
</tr>
</tbody>
</table>

- Vertebroplasty
- Kyphoplasty

**ORDER INFORMATION**

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<th>SET ORDER NUMBER</th>
<th>MIXED VOLUME</th>
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<th>MAX TEMPERATURE</th>
<th>VISCOSITY</th>
<th>GLOBAL PRODUCT NUMBER</th>
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</thead>
<tbody>
<tr>
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<td>Low</td>
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</table>

Exothermic bone cement, heat release exceeding 85° C when in contact with bone. Radiopacifer of 50% enables maximum and safe radiological control.