

Introducing the pioneering

Cohesion[®]

B o n e C e m e n t





Long Term Results

Based on more than 50 years of excellent PMMA clinical history, **Cohesion® Bone Cement**, is a fully biocompatible implant made with the latest generation of compounds.

The use of Zirconium Oxide instead of Barium Sulfate has been shown to limit the potential of bone osteolysis, thus potentially leading in better long term results⁶.

PMMA cement is not a glue, therefore getting the best and widest possible interdigitation should lead to a better fracture stabilization.

Studies have also shown that preserving the vertical bone trabeculae is critical in order to maintain the vertebral body strength⁷.

Cohesion® Bone Cement along with the use of SpineJack® system both preserve the bone trabeculae and improve cement interdigitation.

Cohesion[®]

Bone Cement

is a PMMA (PolyMethyl MethAcrylate) implant with specific and unique properties used for the fixation of fractured vertebral bodies.



What is Cohesion[®] Bone Cement?

Especially in the case of complex fragmented fractures with underlying pathologies affecting bone quality, it is of outmost importance for the physician to have a full control over the cement injection and reliable long term results through:

{ Appropriate High Viscosity
Sustained High Viscosity
High Radio-opacity }

Long
Term
Results

Appropriate High Viscosity

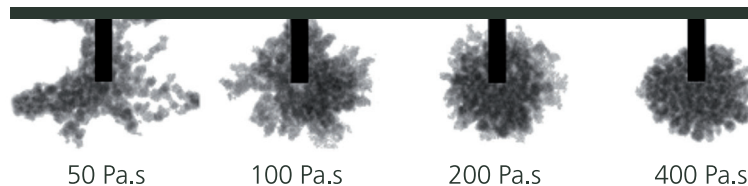
Cohesion® Bone Cement, a cutting-edge PMMA formulation, has been specifically developed for the treatment of complex vertebral compression fractures.



Multiple studies have identified bone cement viscosity as the most important factor influencing the bone cement spreading within the vertebral body and leakage frequency^{1,2}.

Studies have demonstrated that viscosity should exceed 100 Pa.s to increase the circularity of the distribution resulting in an improved injection control. Even more importantly, a bone cement viscosity level above 350 Pa.s may reduce clinically the risk of extravasation³.

Above these levels, an increase of viscosity does not result in better spreading pattern and might reduce the potential of bone cement interdigitation^{1,4}. Excessive viscosity might even lead to trabecular structure destruction^{1,5}.



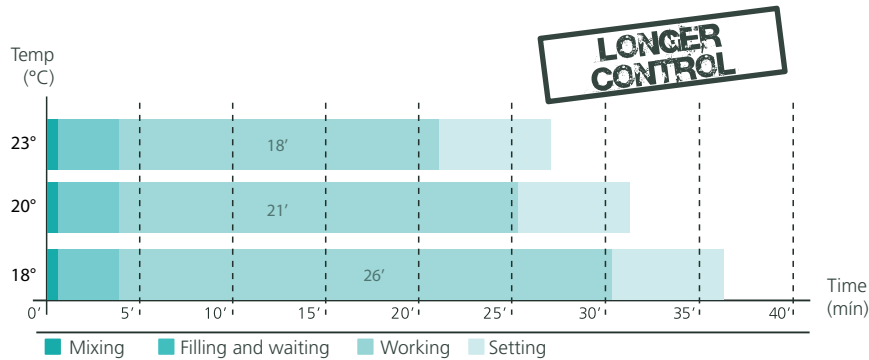
Our **Cohesion® Bone Cement** has been formulated to reach the optimal viscosity of a minimum 350 Pa.s at injection time.

Sustained High Viscosity

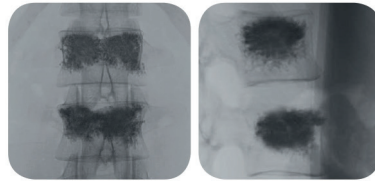
Along with the required high viscosity, enough time to control and adapt the injection to the type of pathology and fracture is required.

Cohesion® Bone Cement has been designed to allow an appropriate preparation (mixing and filling) while avoiding any waiting time.

The Injection or dough phase has been designed to be exceptionally long - nearly 26 minutes at 18°C - for a comfortable management of the fixation phase even in the most complex fractures.



High Radio-opacity



With 45% of Zirconium oxide as radio-opacifiant, **Cohesion® Bone Cement** has been formulated to provide state-of-the-art visibility while being injected. This leads to both increased safety as well as improved interdigitation.

EXCELLENT VISIBILITY

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