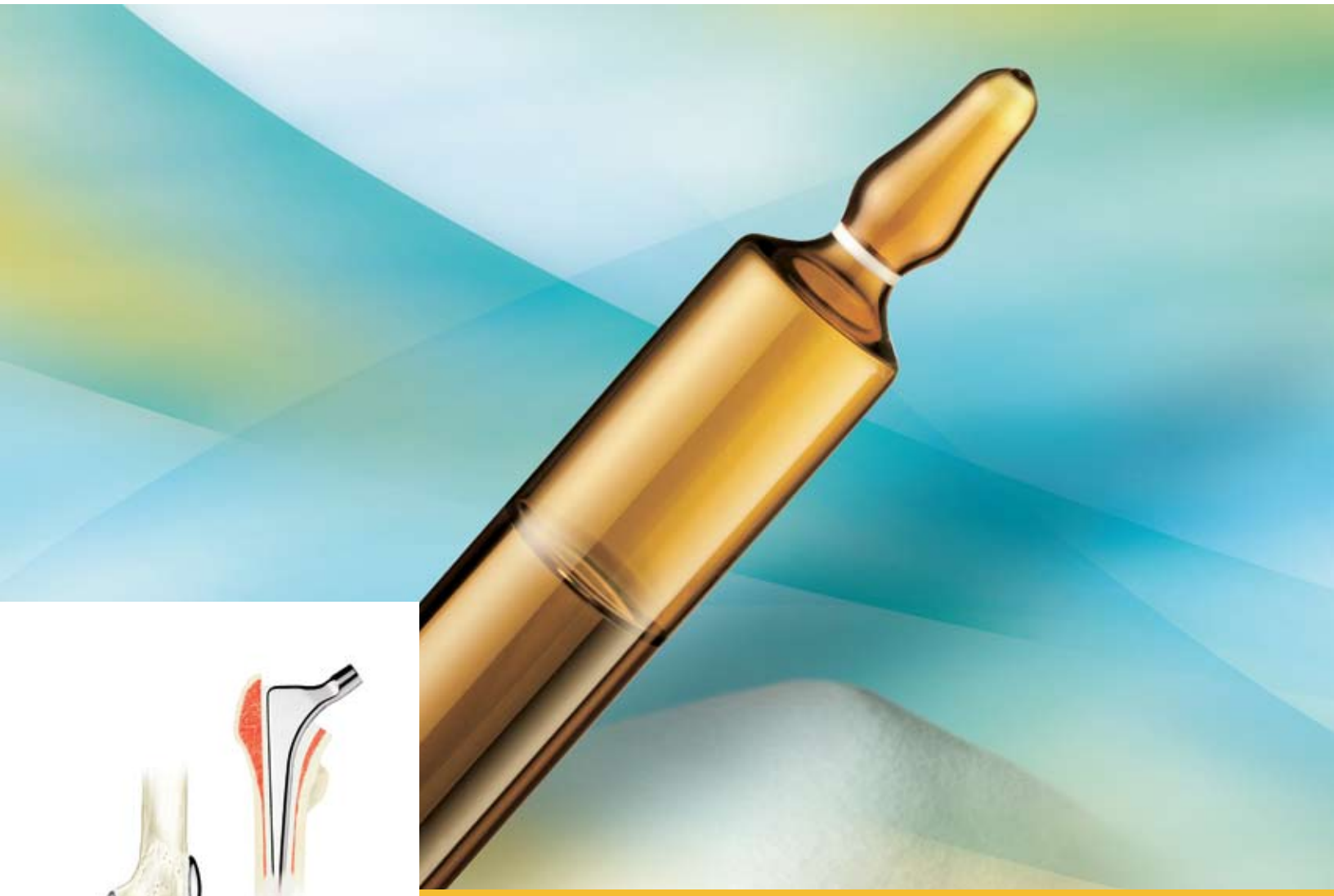
Hi-Fatigue® Bone Cement

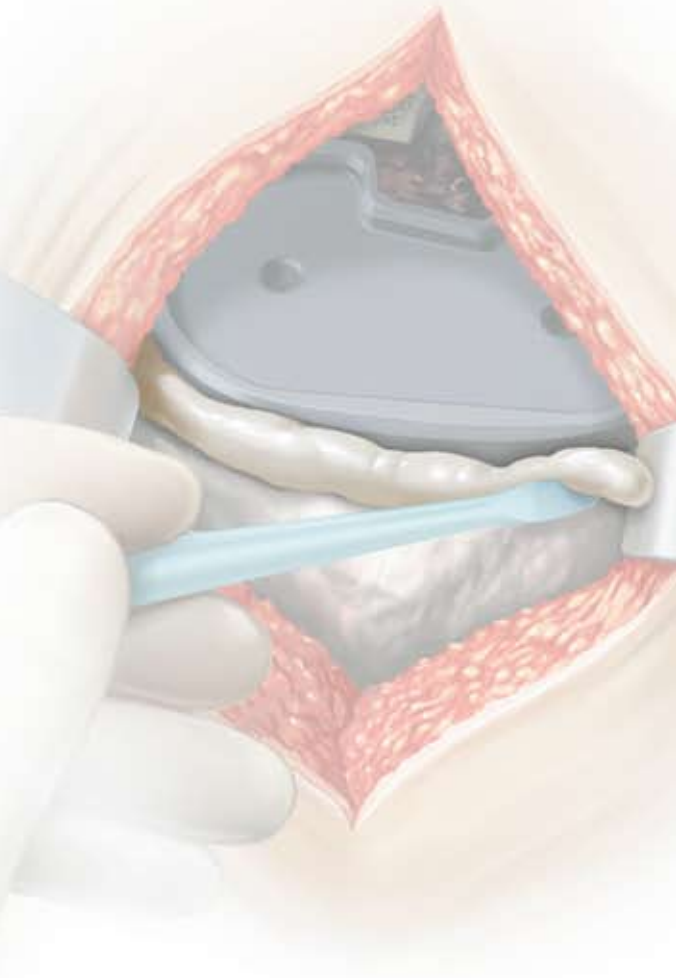


Cementing confidence

zimmer

Cementing CONFIDENCE

Zimmer, a leader in orthopaedics, is cementing confidence with *Hi-Fatigue* Bone Cement. Its unique dynamic mechanical properties[3] allow *Hi-Fatigue* to stand apart from other bone cements. Available with the addition of Gentamicin, *Hi-Fatigue* G Bone Cement provides consistent antibiotic distribution and release to reduce the risk of revision. This high viscosity bone cement has ideal handling characteristics – exhibiting low viscosity properties when mixed, followed by a quick dough time. The long handling time makes *Hi-Fatigue* Bone Cement easy to use for orthopaedic replacement procedures and an ideal choice for minimally invasive surgery.



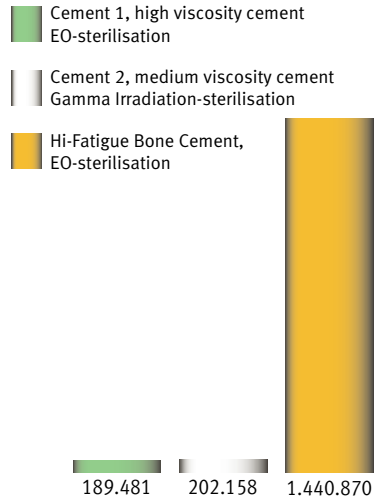
Hi-Fatigue BONE CEMENT

A Formula for Success

The unique dynamic mechanical properties of *Hi-Fatigue* Bone Cement clearly make it a formula for success. Surgeons experience excellent handling characteristics without needing to pre-chill the components. Short mixing and waiting times lead to a long working phase. And, compared to manually mixing the cement with an antibiotic, *Hi-Fatigue* G Bone Cement provides antibiotic protection with a more consistent mixture.[2]

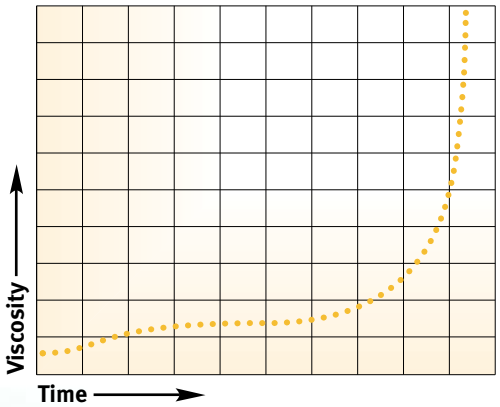
Fatigue Testing

From its unique formulation,[2] Hi-Fatigue *Bone Cement exhibits significant improvement*[3] *in dynamic mechanical properties. This characteristic results in greater reliability under long term cyclical loading.*



Mean Number of cycles to failure (12.5MPa)

[3] Queen Mary University of London, Department of Materials, UK

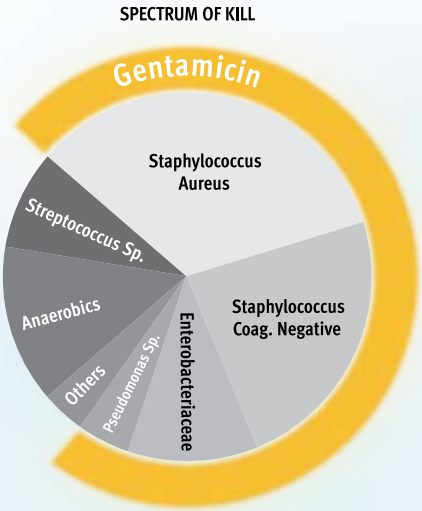


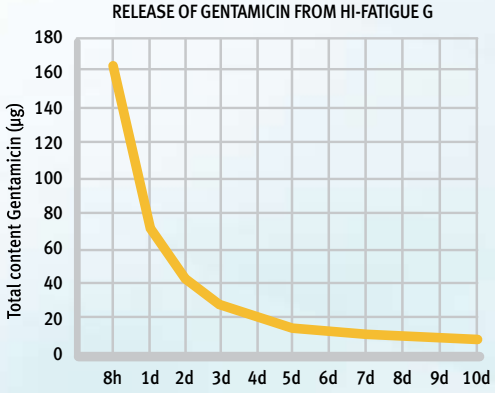
Viscosity

The special viscosity properties of Hi-Fatigue *Bone Cement provide excellent handling without pre-chilling. The comfortable mixing phase of the cement with low viscosity properties is followed by a short waiting time to "dough up." The effective handling time results in an improved workability of* Hi-Fatigue *Bone Cement.*

Broad Spectrum of Kill

Hi-Fatigue *G Bone Cement contains Gentamicin, which has a broad spectrum of kill covering gram-positive and gram-negative bacteria*[1]*. As a pre-mixed formulation,* Hi-Fatigue *G provides a homogenous cement/antibiotic mixture and saves valuable OR time.*





Outstanding Release Characteristics

Hi-Fatigue *G Bone Cement provides high local concentration of Gentamicin. With 0.55 grams of Gentamicin,* Hi-Fatigue *G releases antibiotic over several days to reduce the risk of infection.*[2]

Hi-Fatigue BONE CEMENT

Ideal Choice for Orthopaedics

- Unique dynamic mechanical properties[3]
- Excellent handling characteristics
- Ideal for minimally invasive surgery
- Gentamicin provides a broad spectrum of kill (*Hi-Fatigue* G)
- Consistent antibiotic release characteristics (*Hi-Fatigue* G)

Ordering Information

Bone Cement	Quantity	Prod. No.
Hi-Fatigue	1x40	00-1120-140-01
Hi-Fatigue	2x40	00-1120-240-01
Hi-Fatigue G	1x20	00-1121-120-01
Hi-Fatigue G	2x20	00-1121-220-01
Hi-Fatigue G	1x40	00-1121-140-01
Hi-Fatigue G	2x40	00-1121-240-01

1 Foerster,G.v., Buchholz, H. W., Heinert, K.: Die infizierte Hüftendoprothese-Spätinfektion nach der 6. postoperativen Woche. In: Cotta, H., Braun, A. (Hrgs.), 124-135, 1988.
2 Data on file (aap Biomaterials GmbH)
3 Queen Mary University of London, Department of Materials, UK

Contact a Zimmer representative or visit us at www.zimmer.com

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