

CERAMENT™|BONE VOID FILLER

The next generation of bone substitute

Article number	Description	Quantity
A0210-06	CERAMENT™ BONE VOID FILLER 5mL	1
A0210-05	CERAMENT™ BONE VOID FILLER 10mL	1
A0210-10	CERAMENT™ BONE VOID FILLER 18mL	1

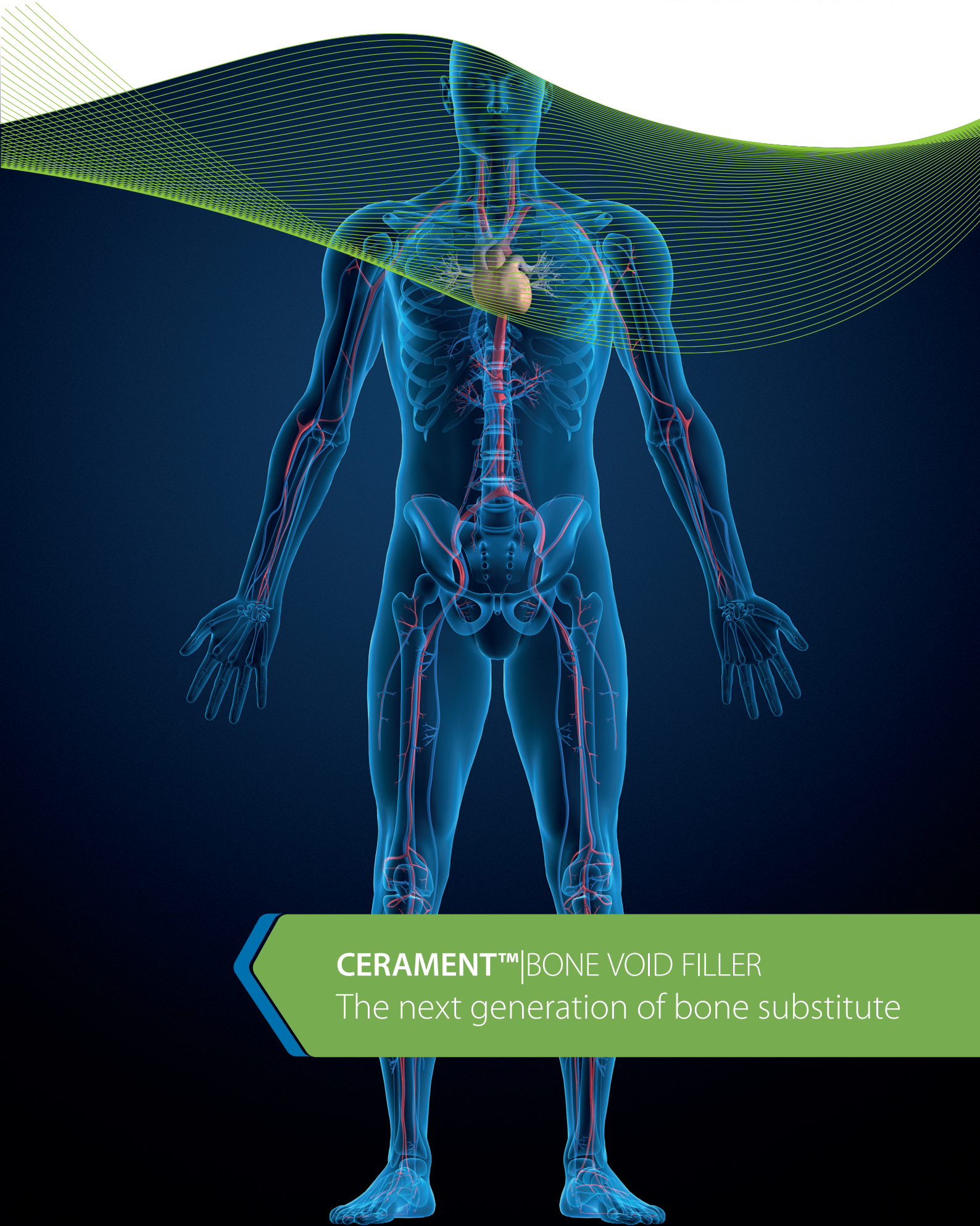
1 CERAMENT™ BONE VOID FILLER contains	A0210-06	A0210-05	A0210-10
Description	5 mL	10mL	18mL
CERAMENT™ CMI Combined mixing and injection device. Pre-filled with ceramic, biocompatible bone substitute. Valve included.	1	1	1
CERAMENT™ C-TRU Iodine based radio opacity enhancing component. Pre-filled syringe contains the exact amount.	1	1	1
CERAMENT™ ID Specially designed injection device.	1	1	2
CERAMENT™ Delivery System			
Tip Extender 11G x 50mm	1	1	1
Tip Extender 11G x 100mm	1	1	1



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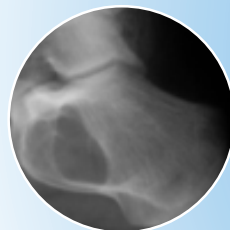
THE PROBLEM

TRAUMA



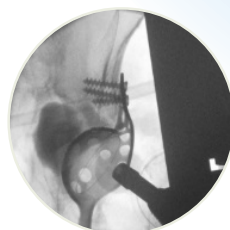
Pre-operative anterior radiograph of tibial plateau fracture¹

BONE CYST



Pre-operative lateral radiograph of calcaneal bone cyst²

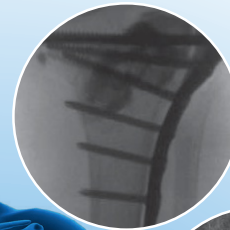
ORTHOPEDICS



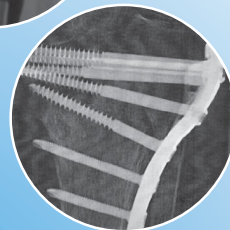
Acetabular revision surgery utilizing CERAMENT™|BONE VOID FILLER³

THE SOLUTION

TRAUMA



Intra-operative anterior radiograph showing placement of CERAMENT™|BONE VOID FILLER¹

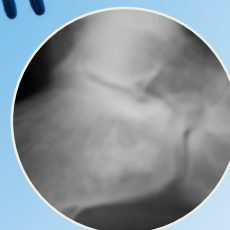


At 18 months anterior radiograph demonstrating excellent incorporation of CERAMENT™|BONE VOID FILLER by new bone¹

BONE CYST



Intra-operative percutaneous replacement of bone void with CERAMENT™|BONE VOID FILLER²



24-month post-operative lateral radiograph demonstrating complete incorporation by bone²

ORTHOPEDICS



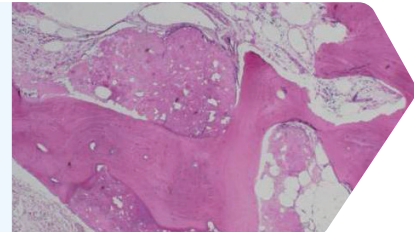
At 12 months – bone remodeling and hip mobility observed radiographically³

Personalizing a solution for your patients needs:

- ➔ Remodeling the bone defect into the patients own bone
- ➔ Rapid return to normal activities
- ➔ No need for a second surgical site

Proven rapid bone remodeling: ^{5,7}

Healthy host bone within 6 to 12 months



Injectable hydroxyapatite and a moldable putty: ^{4,5,6}

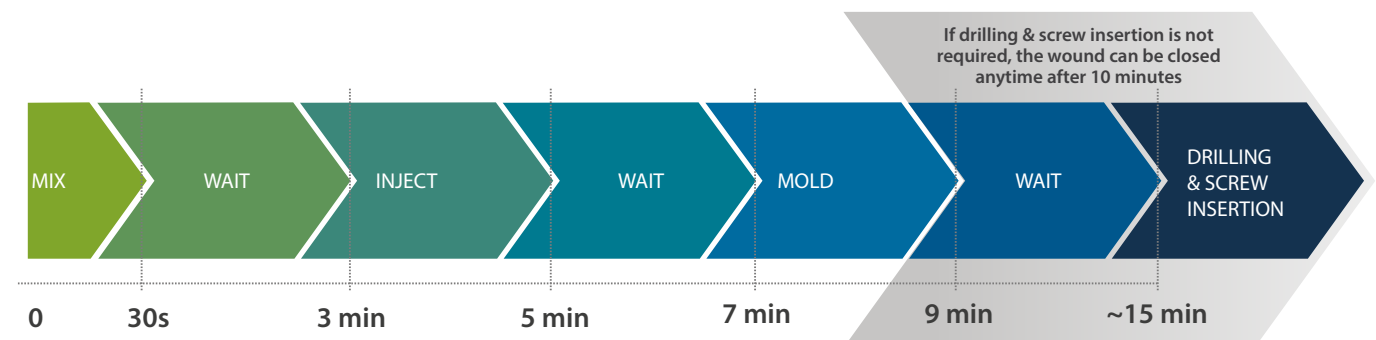


Easy to mix and handle with enhanced radiopacity: ^{5,6,7}

For consistent and safe handling, mix for 30 seconds in a ready-to-use closed mixing system
Isothermic, not temperature sensitive, self-setting



Time and use chart



REFERENCE IMAGES REPRODUCED BY KIND PERMISSION OF:

1. Dr P Desai, Lakeland Regional medical Center, Lakeland Florida USA
2. Dr L DiDomenico, Adjunct Professor, Ohio College of Podiatric Medicine, Youngstown, Ohio, USA
3. Dr J Svacina, Bodden-Kliniken Ribnitz-Damgarten, Germany

REFERENCES:

4. The composite of hydroxyapatite and calcium sulphate: a review of preclinical evaluation and clinical applications. M Nilsson, MH Zheng, M Tägil; Expert Rev. Med. Devices 10(5), 675–684, 2013.
5. Osteotomy of Distal Radius Fracture Malunion Using a Fast Remodeling Bone Substitute Consisting of Calcium Sulphate and Calcium Phosphate; A Abramo, M Geijer, P Kopylov, M Tägil; J Biomed Mater Res Part B: Appl Biomater 92B: 281–286, 2010.
6. Cancellous Bone Defect Healing With A Novel Bi-Phasic Calcium Sulphate-Hydroxyapatite Composite Injectable Bone Substitute; Voor MJ, Burden RL, Borden J, Nilsson M; Poster presentation ORS 2010 New Orleans USA.
7. A Prospective Case Series on CERAMENT™|BONE VOID FILLER: Preliminary Results of a Highly Injectable Biphasic Bone Substitute in Acute Trauma Surgery. A. Hofmann, MD, T. Nusselt MD, PM. Rommens, MD. Centre for orthopedic and trauma surgery, University Medical Centre, Johannes Gutenberg University, Mainz, Germany. BONESUPPORT™ White Paper.