

# CEMEX<sup>®</sup>

## Line



**TECRES**

ADVANCING HIGH TECHNOLOGY

"Knowing  
that our products  
every day improve  
the lives of many people.  
This is our ambition.  
This is our reward."

Giovanni Faccioli, President.



# TECRES

Cutting-edge technologies and constant research to improve the lives of many people. This is the vision of Tecres since 1981, operating in synergy with surgeons, Universities and Research Institutes in order to invent, realize and provide the market with safe, effective and innovative products. We are specialized in acrylic resins since 1986 with medical applications in fields such as orthopaedics, spinal surgery and neurosurgery. Our excellence and reliability are recognized in more than 70 Countries around the world.

# CEMEX® LINE

Cemex® is the bone cement designed by Tecres for joint implants. Right from the start, the company focused on research and development of acrylic resins, creating a unique and revolutionary product in 1986. Since then, the outstanding features of Cemex® have remained unchanged and they are now available in every product of the complete range, making it the ideal cement for all needs. As shown by several international publications, Cemex® is a safe and reliable cement<sup>1-3</sup>, with excellent mechanical performance<sup>12</sup> and long-term clinical follow-up<sup>1,9,11,13,14</sup>.

**Cemex® line is composed by manual cements, closed system cements (Cemex® System) and accessories.**



# 30% LESS MONOMER

Bone cement is made up of polymers (powder) and a monomer (liquid); when the liquid component wets the surface of the powder it sets off a chemical reaction (known as polymerization).

An exclusive process patented by Tecres gives to the powder particles of Cemex® a very smooth and uniform surface, making the cement very compact with extremely low porosity.

The special powder of Cemex® needs 30% less monomer than conventional bone cements found on the market. The revolutionary 3:1 ratio between powder and liquid puts Cemex® in a different league from the traditional 2:1 ratio, providing the surgeon, the operating theatre staff and the patients with a number of significant and proven advantages:

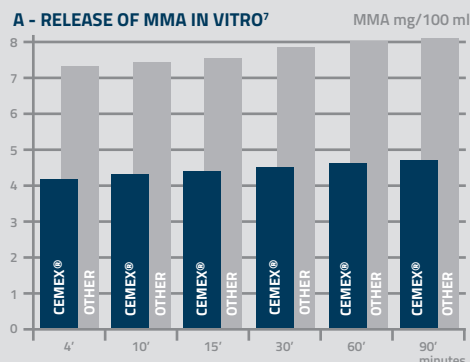
**A - Greater safety:** with less monomer than any other cement on the market, Cemex® is the acrylic resin with the lowest toxicity for anyone coming into contact with it<sup>7</sup>.

**B - Less heat given off:** every gram of monomer generates heat amounting to 130 Kcal. Cemex® requires less liquid, so the maximum temperature reached at the end of the chemical reaction is substantially lower, thus preserving surrounding tissues<sup>8,12</sup>.

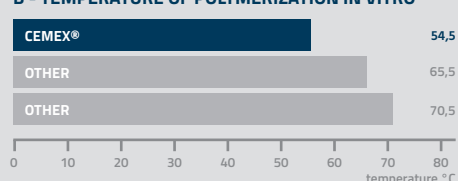
**C - Reduced shrinkage:** shrinkage is the reduction in volume of the cement following its polymerization. It is directly proportional to the amount of liquid present. As the amount of monomer required is reduced by a third, shrinkage is also reduced, thus greatly improving implant fixation<sup>6</sup>.

**D - Release of antibiotic:** some antibiotics are heat-labile, but as Cemex® only reaches quite a low temperature during polymerization, this reduces the risk of antibiotic degradation, thus ensuring effective release of the antibiotic<sup>4,5</sup>.

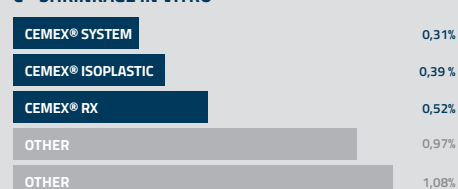
A - RELEASE OF MMA IN VITRO<sup>7</sup>



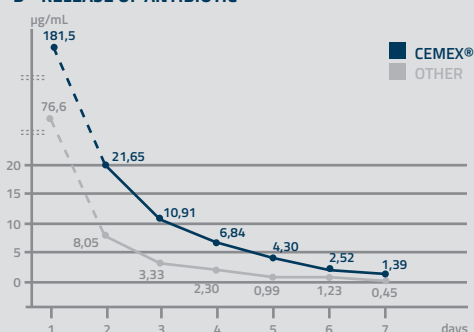
B - TEMPERATURE OF POLYMERIZATION IN VITRO<sup>12</sup>



C - SHRINKAGE IN VITRO<sup>6</sup>



D - RELEASE OF ANTIBIOTIC<sup>5</sup>



40 g

## VANCOGENX®-HV

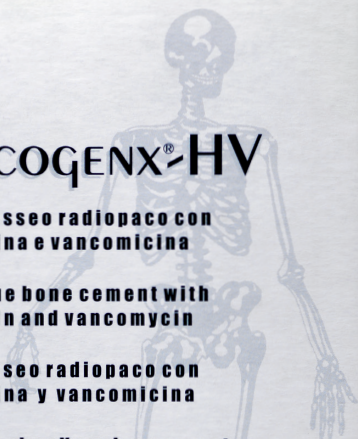
cemento osseo radiopaco con  
gentamicina e vancomicina

radiopaque bone cement with  
gentamicin and vancomycin

cemento óseo radiopaco con  
gentamicina y vancomicina

röntgenopaker Knochenzement  
mit Gentamicin und Vancomycin

ciment osseux radio-opaque avec



# CEMEX® - MANUAL BONE CEMENTS

Cemex® Line adapts to the surgeon’s requirements, and provides a complete product range with or without antibiotics, and with different viscosities, ensuring maximum flexibility for all surgical procedures.

## RANGE

**Cemex® Isoplastic:** high viscosity, recommended for manual applications, particularly for cementing the acetabulum and the knee.

**Cemex® RX:** medium viscosity, suitable for both syringe and manual applications (wait is a few minutes longer).

**Cemex® XL:** low viscosity, suitable for syringe applications.

**Cemex® Fast:** high viscosity, suitable for manual applications where fast application times are required.

**Cemex® Genta LV:** low viscosity with Gentamicin suitable for syringe applications.

**Cemex® Genta HV:** high viscosity with Gentamicin suitable for manual applications

**Cemex® Genta Fast:** all the specifics of Cemex® Fast with Gentamicin

**Cemex® Genta ID Green:** medium viscosity, suitable for both syringe and manual applications with Gentamicin. Green, radiopaque.

**Vancogenx®:** medium viscosity, Vancomycin and Gentamicin loaded bone cement suitable both for manual and syringe application.

**Vancogenx® HV:** high viscosity, Vancomycin and Gentamicin loaded bone cement suitable for manual application.

**Cal-Cemex®:** reinforced bone substitute, hybrid formula



Preparation of manual bone cement:  
scan the QR code and watch the video tutorial

CEMEX®			
NO AB		GENTA	GENTA + VANCO
HV	Cemex® Isoplastic (20/40g) Cemex® Fast (20+20g)	Cemex® Genta HV (40g) Cemex® Genta Fast (20+20g)	Vancogenx® HV (40g)
MV	Cemex® RX (40g)	Cemex® Genta ID Green (40g)	Vancogenx® (40g)
LV	Cemex® XL (50g)	Cemex® Genta LV (40g)	



# CEMEX® SYSTEM

The Cemex® product range has a unique cementation system that already has both powder and liquid inside it. Cemex® System is an “all-in-one” system capable of providing safety and simplicity in a single device. In just a few simple steps, the cement is ready to use and combines the excellent features of Cemex® cement alongside a series of major advantages:

**No risk of contamination:** Cemex® System is completely sealed. Operators do not come into contact with the material at any stage of the mixing process, nor do the components come into contact with the environment.

**No vapours:** The system is completely odour-free, thus protecting operators from being exposed to monomer fumes.

**Easy to use and store:** Cemex® System combines a bone-cement mixing system with a bone-cement delivery system. There are no bags to open up, nor tubes to connect together – all that is needed is the purpose-built Gun. Cement can be prepared in a very short time and this can be done by just one person. Its practicality and compactness mean more room on shelves and in the operating theatre.



Preparation of Cemex® System:  
scan the QR code and watch the video tutorial

CEMEX® SYSTEM	
NO AB	
FAST	Cemex® System Fast (40/70g) Cemex® System Fast ID Green (70g)
STANDARD	Cemex® System (60/80g)
GENTA	
FAST	Cemex® System Genta Fast (40/70g) Cemex® System Genta ID Green (70g)
STANDARD	Cemex® System Genta (60/80g)

Cemex® System preparation stages are available on Tecres website

## RANGE

**Cemex® System:** Bone cement ideal in any surgical situation.

**Cemex® System Genta:** Gentamicin loaded version of Cemex® System.

**Cemex® System Fast:** bone cement ideal in any surgical situation, suitable when fast application times are required.

**Cemex® System Genta Fast:** Gentamicin loaded version of Cemex® System Fast

**Cemex® System Fast ID Green:** Green version of Cemex® System Fast with a stable and durable colour.

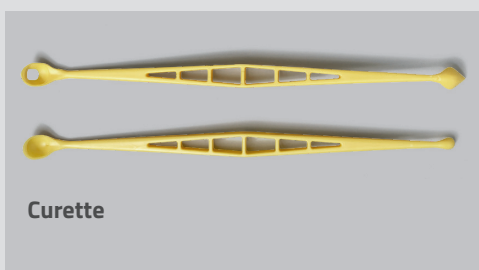
**Cemex® System Genta ID Green:** Green version of the Cemex® System Genta Fast, with a stable and durable colour.



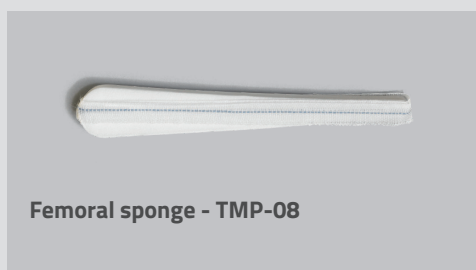
# ACCESSORIES

The vast range of Cemex® accessories includes everything that might be needed for an effective cementation procedure in any surgical situation.

## CEMEX® PREP KIT - KIT-01



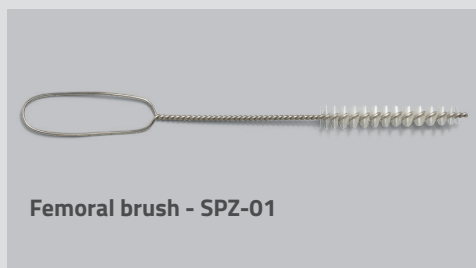
Curette



Femoral sponge - TMP-08



Pressurizer - PRZ-01



Femoral brush - SPZ-01



Cement Restrictors + Inserter

Available in the following sizes: 12-18 mm, 18-24 mm.

## OTHER ACCESSORIES



**2 Mix - ASA0320**  
Easy and reliable mixer that allows vacuum mixing



**2 Mix Gun - ASA0310**  
Gun for 2 Mix extrusion



**CPSP-02**  
Mixing bowl and spatula



**Gun 01**  
To be used with Cemex® System for extruding bone cement



**4 Mix Bowl - ASA0420**  
Bone cement mixing bowl



**Shock absorber - ASA0140**  
Replacement part of Gun 01



**Acetabulum cannula - ASA0000**



**Knee cannula - ASA0010**



**Shoulder cannula - CNL-09**



**Revision cannula - ASA0050**



**Scissors for cannula - ASA0210**



**Cemex® System Mixer**  
**ASA0020 - 220V**  
**ASA0021 - 110V**

Is the first and currently the only totally automatic mixer for bone cement. It can ensure reproducibility of results, optimised mixing and it is easy to use. (to be used exclusively with Cemex® System and its Cemex® System Container)

# ORDERING INFORMATION

CODE	PRODUCT	DETAILS
1200/A	CEMEX® RX	40g
1200/I	CEMEX® ISOPLASTIC	40g
1220/I	CEMEX® ISOPLASTIC 1/2 pack	20g
1200/S	CEMEX® XL	50g
12A3000	CEMEX® FAST	20g+20g
12A3100	CEMEX® GENTA FAST	20g+20g with Gentamicin
1400/AG	CEMEX® GENTA LOW VISCOSITY	40g with Gentamicin - (steril. Eto)
1400/IG	CEMEX® GENTA HIGH VISCOSITY	40g with Gentamicin - (steril. Eto)
1400/AG INT	CEMEX® GENTA LOW VISCOSITY	40g with Gentamicin- (steril. Gamma)
1400/IG INT	CEMEX® GENTA HIGH VISCOSITY	40g with Gentamicin- (steril. Gamma)
1310/S	CEMEX® SYSTEM 60g	60g
1500/S	CEMEX® SYSTEM 80g	80g
1510/S	CEMEX® SYSTEM FAST 70g	70g
13A2020	CEMEX® SYSTEM FAST 40g	40g
1310/SG	CEMEX® SYSTEM GENTA 60g	60g with Gentamicin
1500/SG	CEMEX® SYSTEM GENTA 80g	80g with Gentamicin
13A2110	CEMEX® SYSTEM GENTA FAST 40g	40g with Gentamicin
13A2100	CEMEX® SYSTEM GENTA FAST 70g	70g with Gentamicin
13A2420	CEMEX® SYSTEM GENTA ID GREEN 70g	70g with Gentamicin
13A2320	CEMEX® SYSTEM FAST ID GREEN 70g	70g
12A2420	CEMEX® GENTA ID GREEN	40g with Gentamicin
CPSP-02	BOWL AND SPATULA	
CNL-09	SHOULDER CANNULA	
ASA0010	CANNULA FOR KNEE	
ASA0000	ACETABULUM CANNULA	
ASA0050	REVISION CANNULA	
ASA0150	HIP CANNULA	
KIT-01	CEMEX® PREP KIT	
KIT-02	CEMEX® PREP KIT 2	without restrictors
TPA-18	CEMENT RESTRICTOR (12-18 mm) + INSERTER	12-18 mm
TPA-24	CEMENT RESTRICTOR (18-24 mm) + INSERTER	18-24 mm
TMP-08	FEMORAL SPONGE	
PRZ-01	CEMENT PRESSURIZER	
SPZ-01	FEMORAL BRUSH	
GUN-01	GUN 01	
ASA0130	GUN 02	with opening compartment
ASA0140	SHOCK ABSORBER	
ASA0020	CEMEX® SYSTEM MIXER 220V	220 Volts
ASA0021	CEMEX® SYSTEM MIXER 110V	110 Volts
ASA0030	CEMEX® SYSTEM CONTAINER	sterile and disposable
ASA0210	SCISSORS FOR CANNULAE	by request only
12A2520	VANCOGENX®	40g with Gentamicin + Vancomycin
12A2530	VANCOGENX® HV	40g with Gentamicin + Vancomycin
ASA0320	2 MIX	
ASA0310	2 MIX GUN	
ASA0420	4 MIX BOWL	

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