

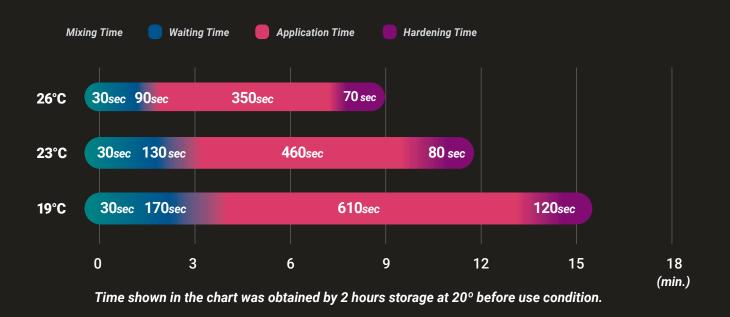
#### Indications

- Severely painful osteoporotic compression fractures
- Painful vertebral body tumors (metastasis or myeloma)
- Symptomatic vertebral hemangioma

#### Features

- · High radiopaque cement with 60% of ZrO2
- · Optimized viscosity for Vertebroplasty and Kyphoplasty
- Short mixing and long working time
- Good mechanical properties

# Chart of handling time at Various Temperature



#### Composition

Component
Powder (20g)

Chemical name Amount
Poly-methylmethacrylate 7.70g

Zirconium dioxide 12.00g

Benzoyl Peroxide 0.30g

Component

## Liquid (8.5g)

Chemical nameAmountMethyl methacrylate (monomer)8.436gN.N-dimethyl para toluidine0.064gHydroquinone150ppm

## High radiopacity property

The following table shows the radiopacity property of OpaCem cement, NTCem Spine (old version), and two other brands.

			(mm)
No	Product name	Contrast agent name and amount added	Al
1	NTCem Spine	ZrO2 30%	2.2
2	OpaCem	ZrO2 60%	4.6
3	"B" brand	ZrO2 60%	4.7
4	"S" brand	BaSO4 30%	2.4

Pic 1 shows the AI step-wedge by 3,4,5,6mm and below Pic shows the brightness of each product which can be compared to AI step-wedge

#### Physical Properties

Evaluation item (ISO 5833)	Unit	OpaCem
Compressive Strength	MPa	90~100
Application Time	min	8~10
Setting Time	min	12~14
Exothermic Temperature	°C	60~80
Bending Strength	MPa	60~70
Bending Mouulus	MPa	4,909
Intrusion	mm	≥2
Radiopacity	mm	4.6

# Pic.1 Al step-wedge 3mm 4mm 5mm 6mm Pic.2 X-ray Image

#### Product Specification

Model Name	Order No	Components	Weight(g)
OpaCem	4210BG0002	Powder	20g
Орасен		Liquid	8.5a