

# Ketac-Cem<sup>®</sup>

Permanent Glass  
Ionomer Cement



Driven to Excellence for 50 Years

# Ketac-Cem®

Proven performance with the most convenient delivery system for glass ionomer cements

Successfully used by dentists for more than 15 years, Ketac-Cem is known for outstanding chemical bonding to tooth structure without conditioning, excellent mechanical properties and high fluoride release.

## The unique Aplicap®/Maxicap® capsulized delivery system provides:

- ◆ simplified and reliable handling.
- ◆ consistent powder-to-liquid ratio.
- ◆ single-use capsules for asepsis.
- ◆ angled dispensing nozzle for easier placement and control in hard-to-reach places.

The fast, efficient and economical Aplicap/Maxicap system reduces waste and saves time by eliminating hand-mixing.

### ESPE... Driven to Excellence

ESPE Dental-Medizin GmbH & Co. KG of Germany, with North American headquarters in Norristown, Pa., is the world's leading manufacturer of innovative consumable products and small devices for the dental profession. Founded in 1947, the company specializes in the manufacture of impression materials, cements, glass ionomers, composites, small equipment, and temporary crown and bridge material. With more than 500 international patents and pending patents, ESPE is meeting the requirements of dental practices throughout the world. All ESPE products are 100% satisfaction guaranteed.



*Aplicap delivers enough material for a single-unit crown.*

*Maxicap provides material for three to six units.*

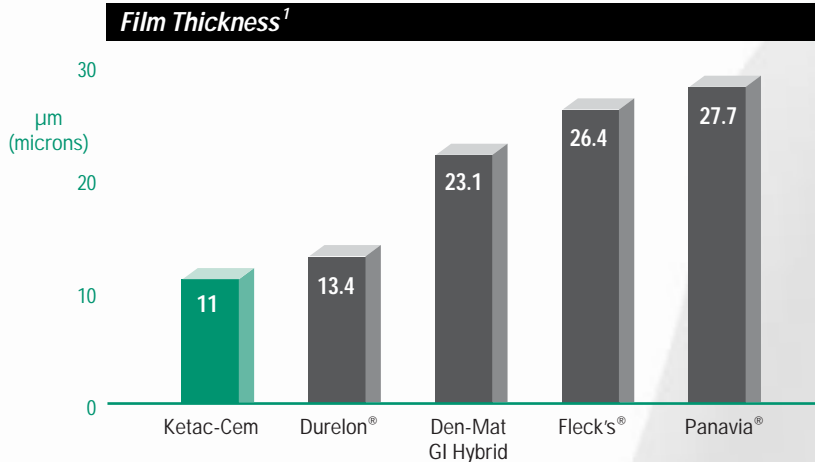


*Easier, direct application into the bridge or crown.*



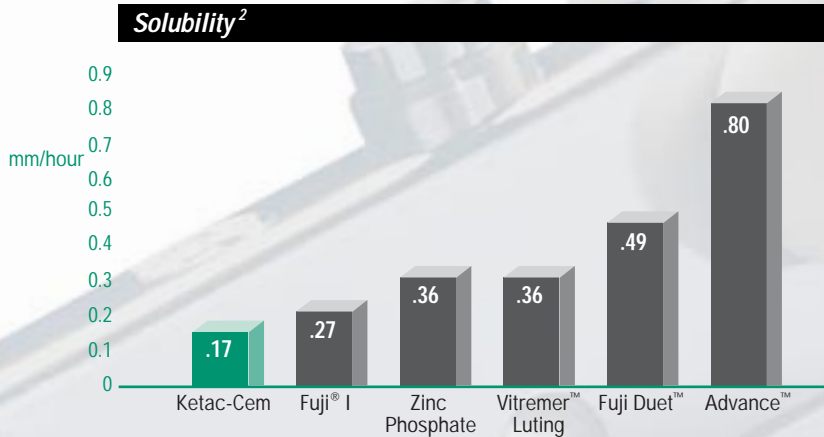
## Minimal film thickness

A low film thickness of 11 µm (microns) ensures precise-fitting restorations.



## Extremely low solubility

Ketac-Cem is virtually insoluble in the oral environment to promote a long-term marginal seal.



*Ketac-Cem is also available in a traditional powder/liquid form.*

## Exceptional adhesion

Ketac-Cem® adheres to both tooth structure and metal oxides with no conditioning for an easier technique than hybrid cements. Outstanding adhesion to dentin has been demonstrated compared to currently available compomer and composite luting cements.<sup>3</sup>

## High fluoride release

Ketac-Cem releases fluoride ions that can be absorbed by adjacent tooth structure.

## Low coefficient of thermal expansion

With a tooth-like coefficient of thermal expansion, Ketac-Cem helps prevent marginal leakage caused by thermal influences.

## Ideal setting characteristics

Ketac-Cem combines a long working time, to facilitate placement, with a rapid setting time, to reduce the risk of contamination by fluids. Easy clean-up speeds the procedure.

## Stability

Ketac-Cem exhibits high compressive and flexural strength to stand firm under pressure.

## Radiopaque

High radiopacity (230%) ensures easy detection.

## Indications

- ◆ Crowns
- ◆ Onlays
- ◆ Bridges
- ◆ Orthodontic bands
- ◆ Inlays
- ◆ Posts

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Permanent Glass Ionomer Cement



## Ordering information

### Product # Description

056054	<b>Aplicap® Intro Pack</b> 50 capsules, Activator, Applier and accessories	037201	<b>Ketac-Cem Radiopaque Intro Pack</b> powder (33 g) and liquid (12 mL)
056016	<b>Maxicap® Intro Pack</b> 50 capsules, Activator, Applier and accessories	037231	<b>Triple Pack</b> 3 powder (33 g) and 3 liquid (12 mL)
056061	<b>Aplicap Standard Pack</b> 50 capsules	037251	<b>Giant Pack</b> 10 powder (33 g), 10 liquid (12 mL) and 5 mixing pads
056021	<b>Maxicap Standard Pack</b> 50 capsules	037211	<b>Intro Powder</b> (33 g)
073040	<b>Aplicap Activator</b>	037221	<b>Intro Liquid</b> (12 mL)
073050	<b>Aplicap Applier</b>		
073060	<b>Maxicap Activator</b>		
073070	<b>Maxicap Applier</b>		

Available through your Authorized ESPE Dealer. For more information, call 1-800-344-8235; <http://www.espeusa.com>

### Reference Literature

<sup>1</sup>Strutz, J., et al.  
Luting cement-metal surface physicochemical interactions on film thickness, *The Journal of Prosthetic Dentistry*, 72, 1994, 128-132.

<sup>2</sup>Norling, B. K., et al.  
Solubility immersion and jet erosion solubilities of fluoride releasing cements, *J. Dent Res* (IADR Abstracts), 1997.

<sup>3</sup>Data on file at ESPE.

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