

Temporary cements

Permanent cements

ProviTemp

DentoTemp

TotalCem

DentoCem

RETENTION

TotalCem

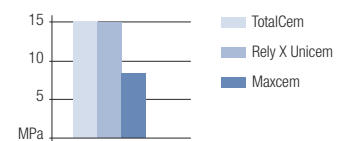
Self-etching and self-adhesive cement



ADVANTAGES

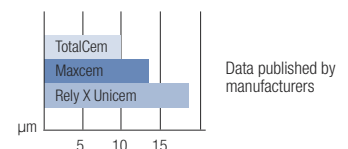
- **All in one!**
Etching + Primer + Bonding + Cement
- **Exceptional bonding strength:**
to enamel: 20MPa
to dentine: 15MPa
- **Auto/photo-polymerizable**
 - Polymerization guaranteed in areas with limited light penetration
 - Optimized gel state for an easy excess removal: photo-polymerizable 3-4s.
- **2 types of intra oral tips:**
fine & extra fine
- **No post-operative sensibilities**
- **Extremely thin film thickness (10 µm)**
- **No solubilities in the oral fluids**
Perfect sealing
- **Radiopaque 250% of Al**
- **Fluoride release**
- **Can be used on vital teeth**
- **2 available shades:**
Universal A2 & Translucent

Bonding strength to dentine



Results from a university laboratory

Extremely thin film thickness



Data published by manufacturers

INDICATIONS

- Self-adhesive to enamel, dentine, metal, ceramic, porcelain, zirconium & composites
- For post, crown, bridge, inlay & onlay cementation

CLINICAL PROCEDURE



Restored stump



Fill a crown with TotalCem



The crown is set up



Light-cure for 3-4s



Remove the rubbery excess



Light-cure for 20s



Post-operative view

TECHNICAL DATA

Compressive strength	180 MPa
Flexural strength	170 MPa
Hardness (by Barcol)	80
Water sorption	12 µg/mm ³
Solubility	7 µg/mm ³
Adhesive bonding to un-etched tooth enamel	20 MPa
Adhesive bonding to un-etched bovin dentin	15 MPa
Adhesive bonding to Rexillum	20 MPa
Film thickness	10 µm
Radiopacity, % Aluminium	250
1-week Cumulative Fluoride release	40 ng/cm ²
Working time	2 min
Setting time	3,5 min
Compatible with Halogen light	Yes
Compatible with Plasma ark light	Yes
Compatible with LED	Yes

References

Translucent TotalCem

8g Automix Syringe	
+ 10 mixing tips	
+ 10 fine intra oral tips	
+ 10 extra fine intra oral tips	TTLCEM-TR

A2 Universal TotalCem

8g Automix Syringe	
+ 10 mixing tips	
+ 10 fine intra oral tips	
+ 10 extra fine intra oral tips	TTLCEM-A2

Fine intra oral tips

25 mixing tips	
+ 25 fine intra oral tips	DCE-50

Extra fine intra oral tips

25 mixing tips	
+ 25 extra fine intra oral tips	DCEXF-50

What do French dental magazines think about TotalCem?

"Easy cementation does exist!" - *Information Dentaire*, 06-12-2008

"A well thought product, all for dentist's confort" - *Clinic*, 12-01-2008

HINTS & TIPS

- Before applying TotalCem, the dentine must be dry but not over dried
- For inlays and onlays, it is recommended to etch the enamel edges with phosphoric acid to increase the bonding (while taking care of not spreading over onto the dentine)
- How to clean the root before applying TotalCem, in order to have an optimum cementation?
 - 1- Remove all residues of gutta percha with a calibrated drill
 - 2- Pass over an ultrasonic probe
 - 3- Rinse well and dry without over drying
 - 4- Apply TotalCem with an extra fine intra oral tip
- TotalCem has not been developed to adhere to enamel with no mechanical support (dental brackets, veneers)
- While a ceramic inlay sets, the following protocol can be followed to improve cementation: Apply hydrofluoric acid for 1 to 3 minutes, rinse thoroughly, dry then apply silane