A pioneer in endodontic rehabilitation

Established in 1968 by Dr. Marc Reynaud, RTD developed and commercialised the fibre post and is the worldwide leader in this field. RTD is certified ISO 9001 / ISO 13485, employs engineers, technicians and chemists, and is also protected by numerous patents.

From our facilities in the "high-tech corridor" of Grenoble, France, over 95% of RTD's production is exported to over 70 countries, and enjoys market leadership in most of those countries.
RTD posts have been independently tested and described in the dental literature over 75 times, and are used and taught in dental schools on every continent.

Patents:
EP 1 115 349 & EP 0 432 001
US 5 328 372 & US 5 890 904

Patents pending:
EP 0 529 2190.5

Process

Secure, pharmaceutical-style packaging protects post from debris & contamination

Removable in minutes with reaccess kit DT Carbide

For a first use
Intro kit with 20 posts + drills

For refills
Blister pack of
10 posts of same size

CE 0459

Distributor

RTD
3 rue Louis Neel Technoparc Espace Gavanière
38 120 ST EGREVE - FRANCE
Tél.: + 33 (0)4 76 56 56 66 Fax: + 33 (0)4 76 56 11 77
E-mail: rtd@rtd.fr / www.rtd.fr

Not 1580GB rev 11/06 -2006-
SYGMA N°06347B - Photos : H. Martin

D.T. LIGHT-POST®
ILLUSION™

COLOR ON DEMAND FIBER POST

The smartest post you could envision

- RADIOPAQUE
- RELIABLE
- AESTHETIC
- EASY TO USE

RTD

D.T. LIGHT-POST®
ILLUSION™

- Flexural strength : 1600 MPa
- Interlaminar shearing strength : 65 MPa
- Elastic modulus (30°) : 13 GPa

A successful product, with a new innovation

DT ILLUSION™ is made from the same material and has all of the same properties and advantages as our D.T. Light-Post®, which has won the prestigious REALITY'S CHOICE award three years in a row.

2004 REALITY Five Star Award ★★★★★ REALITY'S CHOICES

2005 REALITY Five Star Award ★★★★★ REALITY'S CHOICES

2006 REALITY Five Star Award ★★★★★ REALITY'S CHOICES

No clinical root fractures, due to elastic modulus close to dentin [1, 2, 3]

High strength [4] and fatigue resistance [5], provide durability

Translucency provides esthetics and light transmission [6, 7]

NEW Color disappears when seated, re-appears for removal

Color-coded for easy identification; posts match the drills

Corrosion-free and radiopaque [8] for easy diagnostics

Superior fracture resistance [9]

Advanced Design

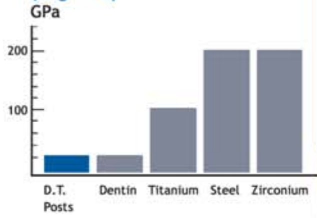
Ideal double – tapered design means optimal adaptation, conservative preparation [10, 11, 12]

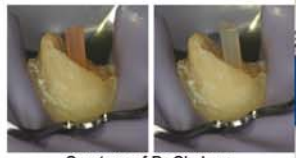
Retention equal to, or better than, metal and other fiber posts [13, 14, 15, 16]

Performance is proven in clinical trials [17, 18, 19]

Atraumatically removable in minutes

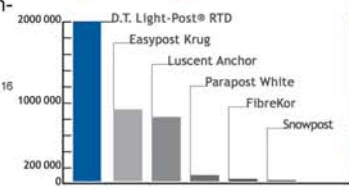
Low Elastic Modulus



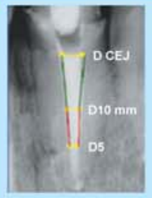


Courtesy of Dr Cheleux university of Toulouse

Cyclic fatigue test



Grandini S., Goracci C., Monticelli F., Borracchini A., Ferrari M. An evaluation, using a three-point bending test, of fatigue resistance of certain fiber posts. Il Dentista Moderno, March, 2004, 70-74

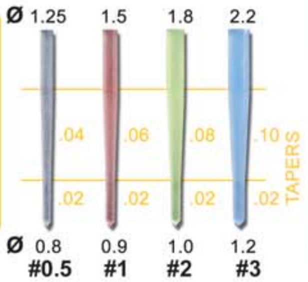


Developed at University of Montreal, this is the first post to adapt to the treated canal, rather than the reverse. These tapers and diameters are derived from thousands of measurements of hundreds of endodontically treated teeth.

No taper for stronger core

Variable Coronal taper for superior post adaptation

Conservative apical 0.02 taper



*D.T. Light-Post® Studies

1. Cifuentes, I., Fernandez, A., Sanchez, A. and Pavlov. P.. Stress Distribution Surrounding Five Endodontic Posts J Dent Res, Vol 83 (Spec. Iss. A) Abstract #4084 2. Cifuentes, I., Fernandez, A., Petrasic, L. et al Photoelastic stress distribution for four endodontic post sytems. J Dent Res. Vol 84 (Spec. Iss. A) Abstract #2934, 2005 3. Shirani, F., Malekipour, M. In-vitro study of different reinforcement methods of anterior weakened teeth. J Dent Res. Vol 84 (Spec. Iss. A) Abstract #1732 2005 4. Galbano, GA, Valandro, LP, deMelo, R., Scotti, R., Bottino, MA. Evaluation of the flexural strength of carbon fiber, quartz fiber and glass fiber – based posts. J Endod. Vol. 31. No. 3, March 2005, 209-211 5. Grandini, S., Goracci, C., Monticelli, F., Borracchini, A., Ferrari, M. An evaluation, using a three-point bending test, of the fatigue resistance of certain fiber posts. Il Dentista Moderno, March, 2004, 70-74 6. Bassi, M. Light diffusion through double taper quartz-epoxy fiber posts. Proceedings from the 5th International Symposium. 21-26, 2001. 7. Sawada, N., Hikage, S., Sakaguchi, K. Shape of composite resins photopolymerized by the translucent post. J Dent Res (Special Issue) #2569, 2002 8. Denny, D., Heaven, T., Broome, J., Weems, R. Radiopacity of luting cements and endodontic posts . J Dent Res. Vol 84 (Spec. Iss. A) Abstract #0675, 2005 9. Akkayan, B., Gulmez, T.: Resistance to fracture of endodontically treated teeth restored with different post systems. J Prosthet Dent 2002; 87:431 10. Boudrias, P, Sakkal, S, Yulian, Anatomical Post Design Applied to Quartz Fiber/Epoxy Technology: A Conservative Approach. Oral Health, Nov., 2001:9-16 11. Baldissara, P., Filonzi, C., Zicari, P, and L. Ciocca, Establishing an Improved Fiber Post Shape Using a 3-D Analysis J Dent Res. Vol 84 (Spec. Iss. A) Abstract #0535, 2005. 12. Boudrias, P., Sakkal, S., and Petrova, Y. Anatomical post design meets quartz fiber technology: Rationale and case report. Compendium. 22: 337-348, 2001. 13. Qualtrough, A. Chandler, N., Purton, D. A comparison of the retention of tooth-colored posts. Quintessence Int 2003;34:199-201 14. Gernhardt, CR, K. Bekes, K., Schaller, HG .Effect of Different Fibre Post Diameters on Retentive Strength. J Dent Res (Special Issue A) #1586, 2006 15. Baldissara, P., Zicari, F., Melilli, D., Monaco, C. Effect of endodontic treatment on fatigue resistance of fiber post bonding. J Dent Res. Vol 82 IADR (Special Issue A) Abstract # 2565, 2003 16. Baldissara, P, Pieri, F, Arcidiacono, A, Fatigue resistance of fiber posts: a comparative study. J Dent Res. 80 IADR (Special Issue A) Abstract #1434, 2001 17. Monticelli, F., Grandini, S., Goracci, C., Ferrari, M. Clinical behavior of translucent fiber posts: a 2-year prospective study. Int. J Prosthodont 2003; 16:593-596 18.Grandini, S., Goracci, C., Tay, F.,Grandini, R., Ferrari, M. Clinical Evaluation of the Use of Fiber Posts and Direct Resin Restorations for Endodontically Treated Teeth Int J Prosthodont 2005;18:399-404. 19. Malferrari, S, Baldissara, P, Arcidiacono, A, Translucent Quartz Fiber Posts: a 20 Month In vivo Study. J Dent Res. 81 IADR (Spec Issue A) Abstract #2656; 2002

CLINICAL CASE

Courtesy Dr B. Duret

Isolate, remove gutta

Create post space

Try-in

Trim excess length

Etch post space

Rinse. Remove water

Apply adhesive. Cure

Apply adhesive. Cure

Place CORECEM dual cure resin

Seat post

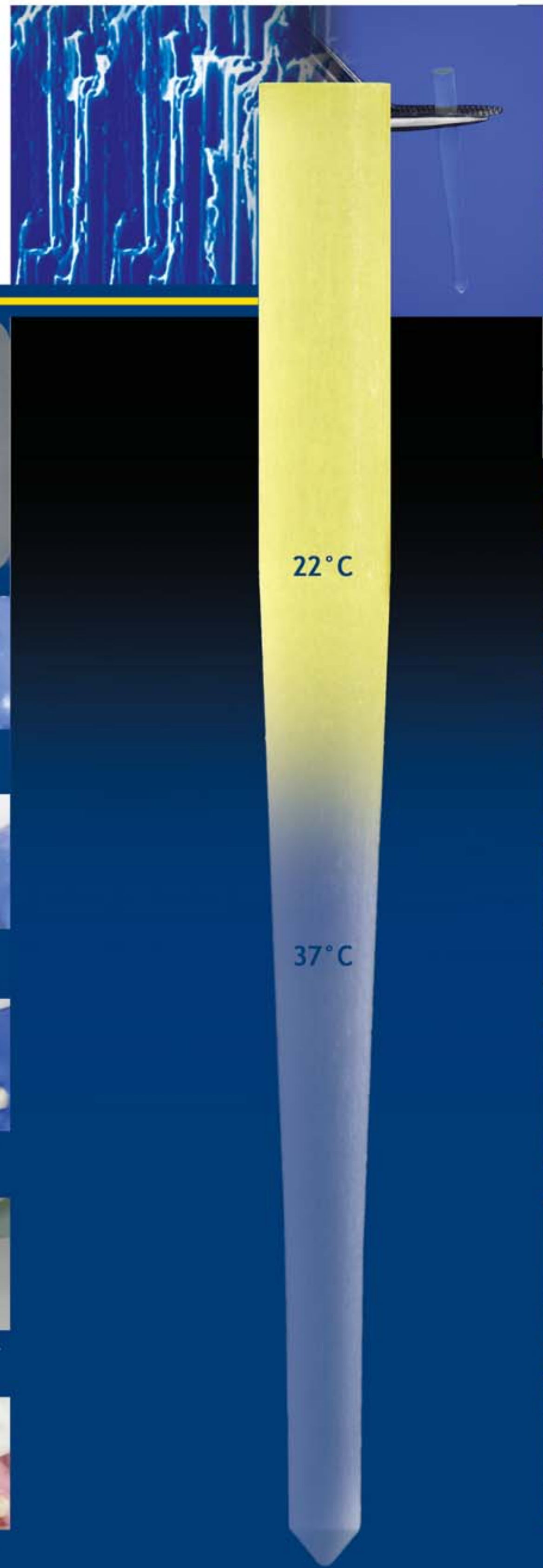
Light cure

Load CORECEM material

Place COREFORM matrix

Light-cure

Trim the core build-up



A caring, complete control of the process:

from the manufacturing of the raw material to the final grinding of the post.

1. Fabrication process

2. Analysis degree of conversion

3. Flexural strength test

4. Shear Strength test

5. Computer driven grinding

6. Tolerance scanning

7. Fatigue Testing

8. User-frienly package design

RTD is the originator of the fibre reinforced endodontic post. Over nearly 40 years' time, we have developed and adapted innovative materials, equipment and techniques for design, production, processing and testing of the products.

RTD is highly automated and uses computer-driven technology to maintain full in-house control over raw materials, degree of polymerisation, mechanical properties and dimensional toler--ances- to name a few- on ALL ours posts.

All of this helps provide RTD, ours distributors, dentist customers and patients a great peace of mind, and expecta--tions of long-term clinical success.