IDS 2025
NEWS

CONTECpro

pro LightTransmitting

The CONTECpro root posts are an excellent addition to the white opaque CYTEC, which has been successfully used in clinical practice worldwide for more than 20 years.

The CONTECpro posts are distinguished by the same outstanding properties:

High flexural strength
1,430 MPa, determined according to EN ISO 178
This is achieved through the use of high-tenacity (HT) glass fibers, which form a perfect bond with the matrix.

High fatigue and fracture resistance

Homogeneity due to dentin-like modulus of elasticity

High radiopacity

Optimized adhesion through a microporous surface
The micro-retentive surface supports the bonding of the root post with the adhesive system. The additional mesh-like retentions optimize the bond – easily and efficiently, without the use of silane.

CONTECpro eco
without mesh-shaped retentions. Therefore, careful application of the adhesive system is of particular importance.

pro LightTransmitting

extends across the entire apical post area, enabling an optimized and simultaneously shortened primary curing of the composite right up to the apical tip of the root post.

In a tightly scheduled procedure, every second counts. These saved seconds allow the dentist to proceed to the next step without any time loss.

Flexural Strength According to DIN EN ISO 178: Plastics – Determination of Flexural Properties

At the Leibniz Institute for Composite Materials of the Technical University of Kaiserslautern, three-point bending tests were conducted on our CYTECpro root posts as well as on root posts from five competing manufacturers.

These results are transferable to CONTECpro, as both posts have the same surface mesh structure.

Test Setup
Determination of Flexural Properties of Root Posts According to DIN EN ISO 178

Material:	Root posts made of glass fiber, round
Diameter:	approx. 1.5 mm
Number of Test Series:	7
Number of Samples per Series:	4

Setup

Testing Machine:	Zwick Retroline 1445
Load Cell:	10 kN
Pre-load:	0.1 N
Test Speed:	2 mm/min
Span Length:	12 mm
Temperature:	Room temperature
Relative Humidity:	50 %rH

Both HAHNENKRATT root posts achieve an almost equally high flexural strength with the following values:

1.400 MPa – CYTEC eco
1.430 MPa – CYTECpro eco
▼

GRAFIK BIEGEFESTIGKEIT

Tests conducted in October 2025 at the Leibniz Institute for Composite Materials, Technical University of Kaiserslautern

Optimized adhesion through a microporous, micro-retentive surface.

The additional mesh structure on the surface of the CONTECpro post enhances the adhesive bond between the post's microporous surface and the composite. The result is optimized retention – without the use of silane – simple and efficient.

Findings from a scientific study conducted at the University of Rostock confirm this for Cytec root posts.

These results are transferable to CONTECpro, as both posts have the same surface mesh structure.

▲ CONTECpro five sizes

In the comparison, CYTEC blanco achieved the highest bonding strength. This shows that the unique surface structure of our root posts supports micro-retentive adhesion, leading to optimised bonding between the post and the adhesive bonding material.

Published in Biomed Tech 2009
Scientific study at the University of Rostock

Root post with bonder
Fibrous structure still visible

Root post with bonder + composite

CONTECpro

REF 44800 CONTECpro, Standard Set
All Sets are shipped in a SHIPPING BOX.

Refill Pack

CONTECpro Root Post System			universal	1,1 mm	1,3 mm	1,5 mm	1,75 mm	2,0 mm
		Code	–	red	white	yellow	blue	black
Instruments		**package of**	**REF**					
	Pilot Drill with guiding tip	1	42010					
	Pilot Drill with cutting tip	1	43000					
	Calibration Drill	1		4400 D11	44001	44002	44003	44004
CONTECpro		**package of**	**REF**					
Standard Set	2 Pilot Drill univ. 5 Calibration Drill 21 Root Post	1	44800					
Test Set	2 Pilot Drill univ. 1 Calibration Drill 3 Root Post	1	44810					
ChangeOverSet	2 Pilot Drill univ. 5 Calibration Drill	1	44800COS					
	Root Post	5		4480D11C5	44801C5	44802C5	44803C5	44804C5
	Root Post	10		4480D11	44801	44802	44803	44804
System Box + Organizer, empty		1	10002 + 10100					

CONTECpro eco

REF 44900 CONTECpro eco, Standard Set
All Sets are shipped in a SHIPPING BOX.

REF 10002 (empty)

CONTECpro eco Root Post System			universal	1,1 mm	1,3 mm	1,5 mm	1,75 mm	2,0 mm
		Code	–	red	white	yellow	blue	black
Instrumente		**package of**	**REF**					
	Pilot Drill with guiding tip	1	42010					
	Pilot Drill with cutting tip	1	43000					
	Calibration Drill	1		4400 D11	44001	44002	44003	44004
CONTECpro eco		**package of**	**REF**					
Standard Set	2 Pilot Drill univ. 5 Calibration Drill 21 Root Post	1	44900					
Test Set	2 Pilot Drill univ. 1 Calibration Drill 3 Root Post	1	44910					
ChangeOverSet	2 Pilot Drill univ. 5 Calibration Drill	1	44900COS					
	Root Post	5		4490D11	44901	44902	44903	44904
System Box + Organizer, empty		1	10002 + 10100					