



NEW!

apt composite

A FURTHER STEP IN THE DIRECTION
OF BIOCOMPATIBILITY.



Swiss quality product 
www.saremco.ch

30
YEARS
SAREMCO
DENTAL

SAREMCO APT ADVANCED POLYMER TECHNOLOGY



APT COMPOSITE

Light-curing microhybrid composite with markedly high biological compatibility.¹⁾ Reduced biodegradation of up to a factor of 10 compared to traditional dental filling materials.²⁾ For treatments in the anterior and posterior area of all classes from I to V. May also be used for indirect techniques.

Degradation by saliva reduced by up to a factor of 10²⁾

free of TEGDMA and HEMA

very low shrinkage stress (3.1 MPa after 30 Min.)³⁾

vital colours, easily sculpted, radiopaque

excellent results with els unibond and cmf adhesive system

tips 16x0.37 g	REF tips	tips 16x0.37 g	REF tips
A1	8024	A3	8026
A2	8025	A3.5/B4	8027

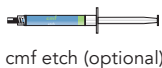


APT UNIBOND
APT FLOW

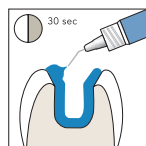


1

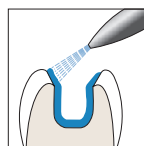
etch



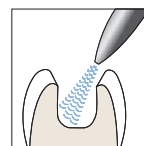
cmf etch (optional)



etch
optional with cmf etch



rinse
thorough rinsing



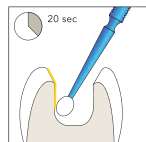
dry
with oilfree air,
keep dry

2

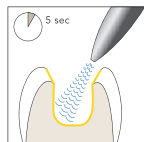
bond



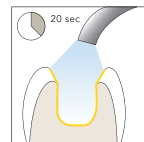
els unibond



bond
apply els unibond and
massage



dry
with oilfree air,
keep dry



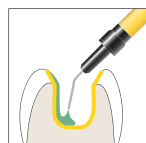
cure

3

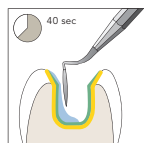
restore



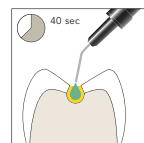
apt composite



line and cure
optional with els flow



restore and cure
layer by layer with
apt composite



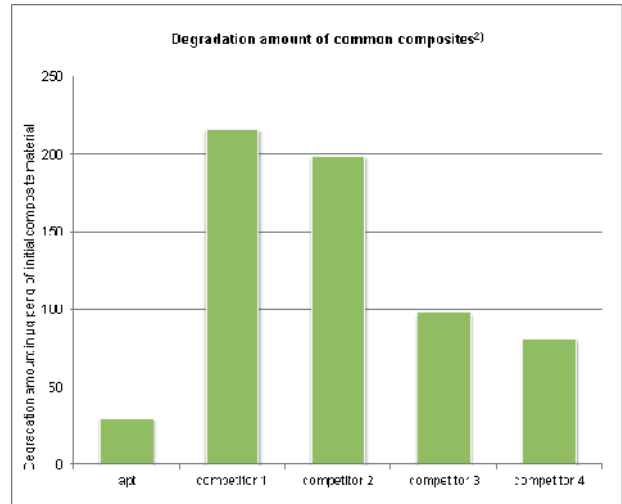
restore and cure
small cavities with
els flow

ONE STEP AHEAD WITH INNOVATIVE POLYMER TECHNOLOGY!

Degradation-stable polymers allow for fewer by-products and thus a better compatibility.

The new SAREMCO MONOMER forms the basis for the apt composite. The monomer has been developed within an INNOSUISSE project in collaboration with the Universities of Applied Sciences Freiburg and Sion (HES-SO). Compared to established filling materials apt composite exhibits up to 10 times reduced degradation due to enzymes in the saliva.

It is well known that dental filling materials of a methacrylate basis are degraded down by enzymes.⁴⁾ The by-products find their way – more or less – uncontrolled into the human organism. These processes have hitherto scarcely been examined, and remain completely beyond the influence of the dentist. In addition, as a result of the weakening/erosion of the polymer through degradation processes, other micro-organisms can invade the filling and thus engender secondary caries.



ELUTION BEHAVIOUR OF A NEW SAREMCO FILLING COMPOSITE

Analytical report "Elution behaviour of a new SAREMCO filling composite"⁵⁾

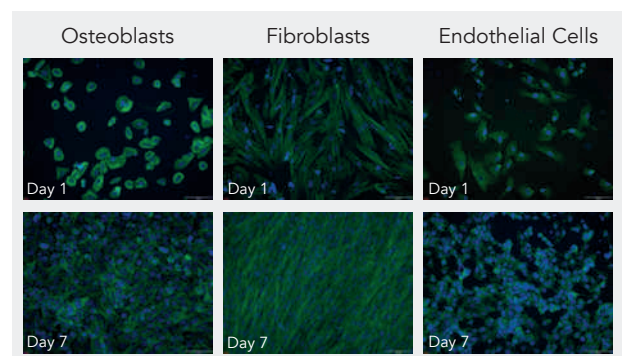
composite	distilled water		methanol	
	HEMA	TEGDMA	HEMA	TEGDMA
apt composite	n.d*	n.d*	n.d*	n.d*

* n.d. = not detected

«Methacrylates are regarded as substances with high allergic potential. The higher the number of elutable methacrylates and the higher the amount of eluted methacrylates from dental materials, the greater the probability that sensitive patients can develop an allergy to it. With this new filling composite no methacrylate can be detected either in watery or methanolic eluate.»⁵⁾

HIGH BIOLOGICAL COMPATIBILITY OF THE SAREMCO MONOMER

In multiple studies by the Zurich University for Applied Sciences (ZHAW) in Wädenswil the INTERACTION OF HUMAN CELLS WITH APT COMPOSITE¹⁾ was examined. Osteoblasts (bone cells), endothelial cells (vascular cells) and fibroblasts (connective tissue cells) exhibit an optimal cell behaviour regarding adhesion, morphology and proliferation up to a clear differentiation after 14 days.



¹⁾ Dr. Epifania Bono et. al. "In vitro characterization of a new composite material for biomedical applications on 3D (bio)printing", Zurich University of Applied Sciences ZHAW; 11/2017

²⁾ Prof. Dr. Umberto Piantini, HES-SO Valais-Wallis, degradation measurements; 04/2017

³⁾ Prof. Dr. C.J. Kleverlaan, ACTA Academic Centre for Dentistry Amsterdam; 03/2018

⁴⁾ Delaviz Y., Finer Y., Santerre J. P., Biodegradation of resin composites and adhesives by oral bacteria and saliva: A rationale for new material designs that consider the clinical environment and treatment challenges. Dental Materials 30 (2014) 16-32

⁵⁾ Univ.-Prof. Dr. Dr. Franz-Xaver Reichl, Polyclinic for Conservative Dentistry and Parodontology of the LMU and Walther Straub Institute for Pharmacology and Toxicology of the LMU, Nussbaumstr. 26, 80336 Munich, www.dentaltox.com; 03/2018

30
YEARS
SAREMCO
DENTAL



WITH A FRESH APPEARANCE AND CLEAR DIRECTION TOWARDS SUCCESS!

30 years after its foundation, the independent Swiss company SAREMCO Dental is established as **the specialist for exceptionally biocompatible dental filling materials**. The fresh appearance stands in harmony with the high quality products, which have been developed and produced in Switzerland with much knowhow.

SAREMCO Dental offers dentists first class restorative systems with added benefits. Thanks to the consistent abandonment of ingredients with a proven allergic potential, dentists are moving more towards offering

solutions for patients with known allergies to these ingredients. Beyond this they offer **prophylactic protection** for all other patients, as well as for the dentists themselves and their staff.

Using highly innovative polymer technology SAREMCO Dental, with the world first **apt composite**, is laying down another milestone in the direction of biocompatibility – and is thus once more ahead of its time.

Swiss quality product 

