

Gingival retraction

ENHANCE YOUR IMPRESSION ACCURACY

Enhancing your workflows
through innovation

expasyl
exact



SUCCESSFUL GINGIVAL RETRACTION IS **ALL YOU NEED FOR ESTHETIC RESULTS**



Adequate isolation of the gingival margin is **essential** for acquiring **excellent final impressions**¹.

Gingival retraction systems used in dentistry involve **highlighting the peripheral limits of preparations**. The aim is to create a **clear access to the emergence profile** and to keep the prepared site clean and dry.



The **quality of fit of the final prosthesis depends entirely on the quality of the preparation and the retraction** of the gingiva.



Accessibility of the juxtagingival and subgingival margins and good hemostasis are the main prerequisites for taking an accurate impression, enabling the dental technician to **provide a prosthesis that perfectly contours the natural tissues**.²

¹ R. Masek, Margin isolation for optical impressions and adhesion, *International Journal of Computerized Dentistry*, 2005; 8:000-000
² E. Sitbon, D. Dot, M. Denis, Mise en évidence des limites de préparation lors des empreintes en prothèse fixée. *Revue de synthèse*. 2010



EFFICIENT GINGIVAL RETRACTION SYSTEM: A **MUST-HAVE** FOR ACCURATE IMPRESSIONS



Sulcular opening

0.2mm is enough to record the cervical limits and emergence profile³



Dry sulcus

the presence of fluid or blood will lower the impression precision, both conventional and digital



Tissue management

any damage to epithelial attachment initiates an inflammatory response that can cause a periodontal pocket or irreversible gingival recession



³ Vincent Bennani, John M. Aarts, Li Hong He. A comparison of pressure generated by cordless gingival displacement techniques. *The Journal of Prosthetic Dentistry*, 2012 June;107(6):388-392



CAD/CAM USERS...

You are looking for excellence: ALL YOU NEED IS ACCURATE DIGITAL IMPRESSION

Thanks to the optimization of the sulcus opening, a **proper restorative emergence profile design is essential** to create a life like restoration^{1,2,3}



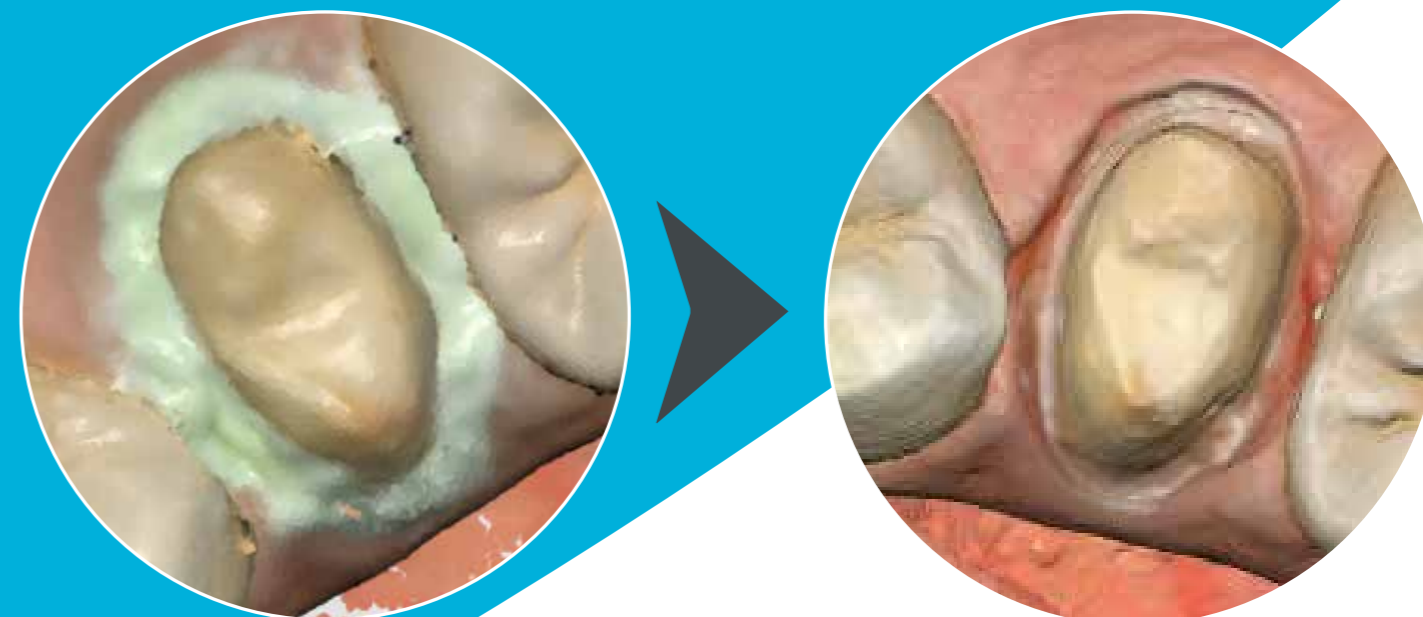
1 FLUID CONTROL
Dries sulcus completely
> **Increases scan accuracy**

2 SUPERIOR TISSUE MANAGEMENT
Preserves epithelial attachment
> **Safe sulcular opening**

3 TIME MANAGEMENT
Predictable prosthesis placement
> **Limit back and forth with prosthesis laboratory**

1. Chu SJ et al. Restorative Emergence Profile for Single-Tooth Implants in Healthy Periodontal Patients: Clinical Guidelines and Decision-Making Strategies. *Int J Periodontics Restorative Dent.* 2019 Jan/Feb;40(1):19-29.
2. Bishara M et al. Implant Restorations: Establishing a Proper Emergence Profile. *Compendium.* Volume 41, Issue 8. September 2020.
3. Pizzi P. The Importance of the Emergence Profile and Tissue Cast. *Inside Dental Technology.* Volume 9, Issue 1. January 2018

ENSURE COMPLETE SUCCESS OF YOUR PROSTHETIC RESTORATIONS



Courtesy of Dr Boulic - France



**expasyl
exact**

Allowing **full access** to
the emergence profile
to guarantee the most
natural finish

expasyl
exact

FOR A CLEAR EMERGENCY PROFILE, ALL YOU NEED IS EXPASYL™ EXACT



Facilitate access
to the preparation limits
and emergence profile

A TRIPLE ACTION



Kaolin clay

1 ASTRINGENT EFFECT

helps to completely dry the sulcus with no blood or fluids.



2 OPEN THE SULCUS

effectively with no pain or damage to tissues thanks to the viscosity carefully calculated with our clinical expertise.



Aluminum chloride

3 PRESERVE EPITHELIAL ATTACHMENT*

for a reduced risk of gingival recession and bone resorption.

*Canula must not be inserted into the sulcus

FORMULATION PROVIDES

EFFICIENT
atraumatic
gingival retraction

DRY SULCUS
easier image acquisition



PREDICTABLE
& reliable
impressions

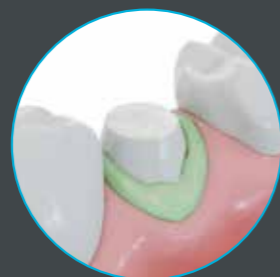


TIME SAVING
fast, simple
& easily removed

WHEN PERFORMANCE IS COMBINED WITH EASE OF USE



EASILY APPLIED
20 SECONDS



WORKS IN
1-2 MINUTES
max



EASILY REMOVED
with a gentle
air/water spray

- Atraumatic **gingival retraction**.
- One dose, one patient to avoid **cross contamination**.
- **No need** to use additional retraction cords.
- Works with any **composite applicator**.
- For **digital and conventional impression**.

Expasyl™ paste generates the highest pressure compared to other retraction materials, once applied.¹

1. Dederichs M, Fahmy MD, Kuepper H, Guentsch A. Comparison of Gingival Retraction Materials Using a New Gingival Sulcus Model. *Journal of Prosthodontics*, Vol. 28, No. 7 (June 17, 2019): 784-789.

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ARE ALL RETRACTION TECHNIQUES THE SAME?

RETRACTION CORDS CAN CAUSE ACUTE INJURY

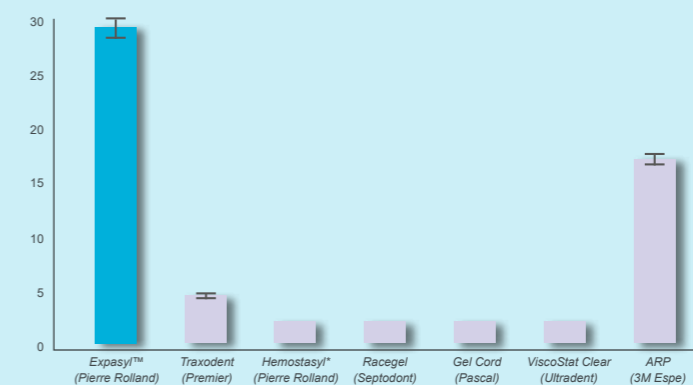
When the sulcus is damaged, it may induce delayed healing, bone loss and a periodontal pocket.

For patients with implants, there is a risk of peri-implantitis which can increase the risk of implant failure.²

Compared to traditional cords, **Expasyl™ paste preserves gingival tissues and epithelial attachment**.³

WHY CHOOSE EXPASYL™ EXACT RETRACTION PASTE

Generates pressure **1.7 to 9.2 times greater***



Note: Hemostasy is included in this study but is not a retraction compound.

Adapted from American Association for Dental Research

*than other retraction paste available on the market.⁴

2. Azza Al-Ani et al. New Zealand dentists' use of gingival retraction techniques for fixed prosthodontics and implants. *New Zealand Dental Journal*, 2010 Sep;106(3):92-96.

3. Bennani V et al. A comparison of pressure generated by cordless gingival displacement techniques. *J Prosthet Dent*. 2012 June;107(6):388-92.

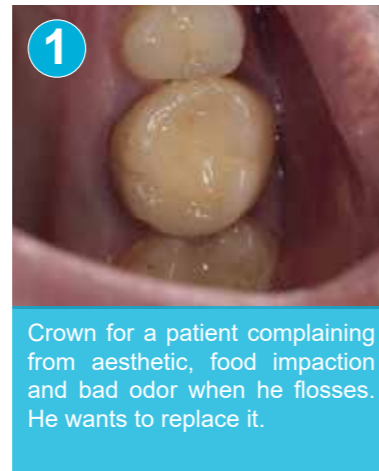
4. Klettke T, Schulte C. Force required to displace Pastes and gels for Gingival retraction, 2012 AADR Annual Meeting (Tampa, Florida); Poster Session ID 1364.

CLINICAL CASE

Dr. ABU ARQUB



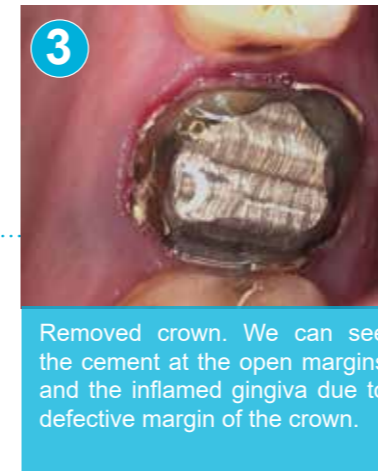
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exact



1
Crown for a patient complaining from aesthetic, food impaction and bad odor when he flosses. He wants to replace it.



2
Discolored exposed margin and plaque accumulation on the crown surface.



3
Removed crown. We can see the cement at the open margins and the inflamed gingiva due to defective margin of the crown.



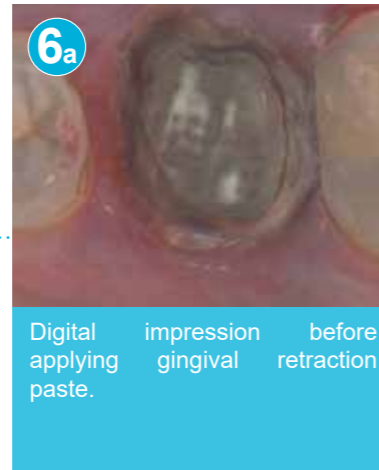
4
Class 2 cavity on second molar due to food impaction caused by defective crown contact and margin.



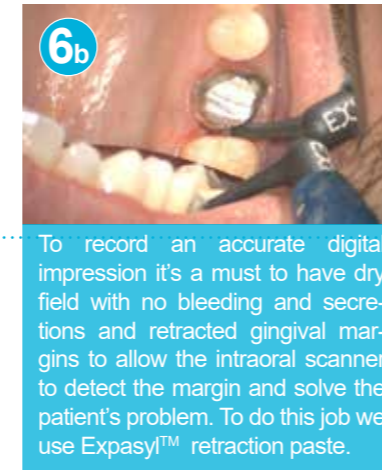
5
Class 2 cavity on second premolar due to food impaction caused by defective crown contact and margin.



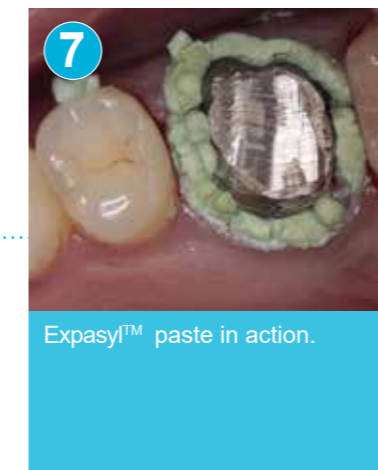
6
Restoration with resin composite restoration and new finish line preparation. We can see the bleeding from gingiva after this restorative procedure.



6a
Digital impression before applying gingival retraction paste.



6b
To record an accurate digital impression it's a must to have dry field with no bleeding and secretions and retracted gingival margins to allow the intraoral scanner to detect the margin and solve the patient's problem. To do this job we use ExpasyI™ retraction paste.



7
ExpasyI™ paste in action.



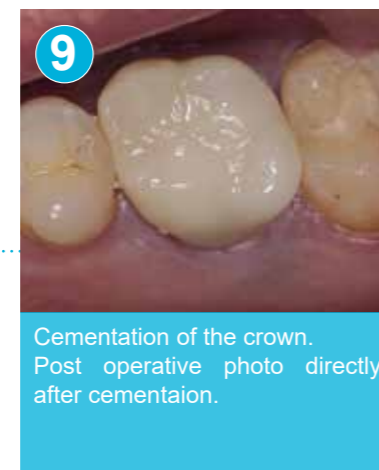
7a
It is very easy to remove ExpasyI™ Exact after gingival retraction and hemostasis was done using riskontrol disposable tip. After this step the tooth is ready to be recorded.



8
Clean dry field with no bleeding and retracted gingival margins that are clear.



8a
Impression taken after gingival retraction.



9
Cementation of the crown. Post operative photo directly after cementation.



10
Cementation of the crown. Post operative photo directly after cementation.



Watch this real time video showing how **simple, easy and fast** the application of ExpasyI™ Exact is.

EXPASYL™ PASTE USED BY EXPERTS

97% of Expasyl™ paste users **would recommend** this product to a colleague*

93% of Expasyl™ paste users say that **the sulcular opening obtained** with the product **is ideal for impression taking***

94% of Expasyl™ paste users find that the **application is very easy***

*Internal survey 2023 conducted among 270 French dentists



I do most of the cases just with Expasyl™, I tested all other materials tools but the best one is Expasyl™. It makes retraction much more easy, faster and predictable than working with cords.

Dr. Ingo Baresel, Germany



The best, simplest, easiest and fastest way to create restoration with the best marginal integrity is by using Expasyl™ Exact

Dr. Abu Arqub, Jordan

DISCOVER OUR EXPASYL™ RANGE



References	Products
EXPASYL™ EXACT (0.3g CAPSULES)	
Ref. 261 011	Expasyl™ Exact x 50
Ref. 261 010	Expasyl™ Exact x 20
Ref. 260 920	Applicator
EXPASYL™ - KIT & APPLICATOR (1g CAPSULES)	
Ref. 294 100	Minikit: 1 Applicator + 6 Capsules + 12 Straight Cannulas (bendable)
Ref. 260 900	Applicator x1
EXPASYL™ - CAPSULES & CANNULAS (1g CAPSULES)	
Ref. 261 030	Capsules x 20
Ref. 294 010	Capsules x 6
Ref. 261 001	Strawberry Capsules x 20
Ref. 261 005	Straight Cannulas (bendable) x 100
Ref. 261 040	Straight Cannulas (bendable) x 40
Ref. 261 015	Pre-bent Cannulas x 100
Ref. 261 045	Pre-bent Cannulas x 40

Not available in all countries. Please contact your dealer.



**Discover
Expasyl™ paste
clinical cases**





Part of our Digital Prosthetic Workflow

Performance by innovation, at every step





**PRODUITS
DENTAIRES
PIERRE ROLLAND**

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Follow us
and learn more
about ExpasyI™ paste



Class I medical device – CE - For professional dental use only.
Read the instructions in the notice carefully before use.
All information that is essential to ensure correct use of these
devices is included in the summary of the product
characteristics available on the laboratory's website.
Manufacturer: Produits Dentaires Pierre Rolland - France.
Update: June 2023