

Over the years we completely changed the composite aesthetics, first with Enamel Plus HFO, developed in cooperation with Prof. Lorenzo Vanini, and then with **Enamel Plus HRi**, the only composite with the same refractive index as natural enamel. Now we want to introduce on the market:

#### **Enamel Plus HRi Function**

the only composite, ideal for posterior, with mechanical and functional characteristics identical to gold and similar to natural enamel, that mantains the OCCLUSAL BALANCE over time

## ENAMEL<sup>plus</sup> HRi® Function



including 6 syringes 2,5 g 4 dentines: UD1, UD2, UD3, UD4 universal enamel UE2

ENAMEL PLUS HRI FUNCTION KIT including 3 syringes 2,5 g

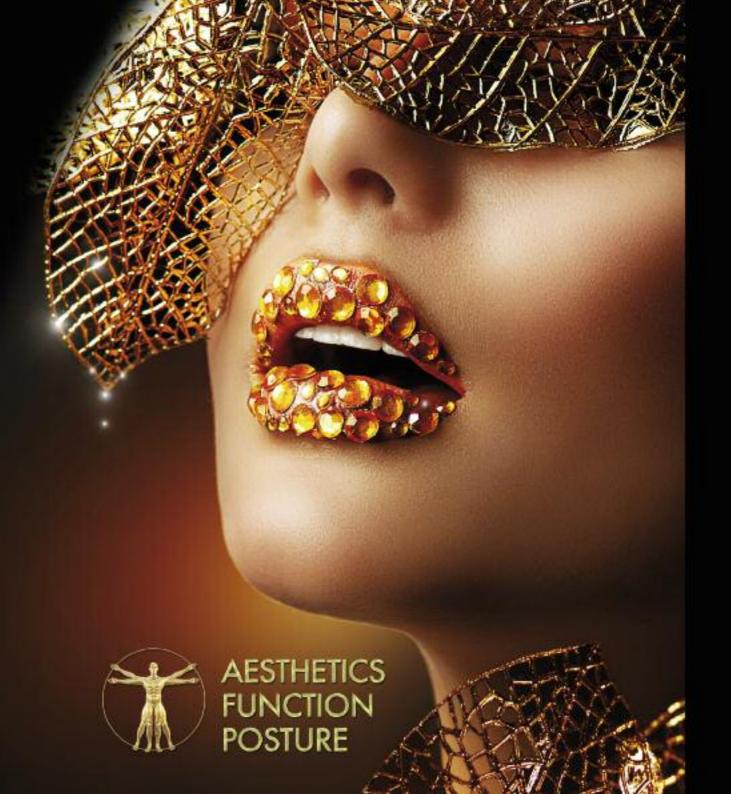
3 "Function" enamels: EF1, EF2, EF3

ENAMEL PLUS HRI FUNCTION TRIAL KIT ncluding 36 tips (6 tips x 6 shades) dentines: UD1, UD2, UD3, UD4

ENAMEL PLUS HRI FUNCTION KIT including 18 tips (6 tips x 3 shades) "Function enamels": EF1, EF2, EF3









#### What is occlusal balance?

The concept of OCCLUSAL BALANCE is different from OCCLUSAL STABILITY: it's a dynamic concept closer to physiology. During his life, the patient changes his own occlusion physiologically, due to ageing, stress or different habits, but he never loses his Occlusal Balance, even if it adjusts.

NATURAL ENAMEL is a HARD enough tissue to support the chewing loads; it is at the SAME TIME a WEARABLE tissue which adapts to the occlusal adjustments. In this way, the patient can preserve his OCCLUSAL BALANCE although the occlusion and the position of the mandible change.



## NAMEL<sup>plus</sup> HRi® Function

Nowadays all restorative materials have excellent aesthetic properties which are comparable with one another, while we still know very little about their mechanical-functional features, especially in relation with occlusion.

The choice of materials is the key to get long-lasting results which approach to natural enamel according to aesthetic and above all functional and occlusal stan-

> We completely changed the composite aesthetics NOW.... Let's change the occlusion therapy



### **WEAR COMPARATIVE ANALYSIS**

University of Chieti - Prof. Camillo D'Arcangelo

After 120.000 cycles with chewing machine vs Zirconia	Wear Depth (mm)	Volume Loss (mm3)	Antagonist Wear (mm)
Enamel plus HRi UE2 Light cured with dentist's curing unit	<b>0.485</b> (0.064)°	<b>1.452</b> (0.245) <sup>d</sup>	<b>0.010</b> (0.007)
Composite F* (enamel) Light cured with dentist's curing unit	<b>0.464</b> (0.069) <sup>c</sup>	<b>0.972</b> (0.247) <sup>b,c,d</sup>	<b>0.004</b> (0.002)
Enamel plus HRi Function EF3 Light cured with dentist's curing unit	<b>0.335</b> (0.069) <sup>b</sup>	<b>0.529</b> (0.139) <sup>a,b,c</sup>	<b>0.006</b> (0.001)
Enamel plus HRi UE2 Light cured with Laborlux**	<b>0.463</b> (0.063) <sup>c</sup>	1.016 (0.198) <sup>c,d</sup>	<b>0.015</b> (0.013)
Composite F* (smalto) Light cured with Laborlux**	<b>0.459</b> (0.068)°	1.017 (0.239) <sup>c,d</sup>	<b>0.016</b> (0.017)
Enamel plus HRi Function EF3 Light cured with Laborlux**	<b>0.276</b> (0.058) <sup>a,b</sup>	<b>0.464</b> (0.191) <sup>a,b</sup>	<b>0.016</b> (0.003)
Pressed Ceramic	<b>0.303</b> (0.065) <sup>a,b</sup>	<b>0.531</b> (0.143) <sup>a,b,c</sup>	<b>0.002</b> (0.002)
Gold type III	<b>0.219</b> (0.060) <sup>a</sup>	<b>0.328</b> (0.140) <sup>a</sup>	<b>0.004</b> (0.005)
Human Enamel	0.216 (0.070)a	0.404 (0.200)a	0.013

- reference composite chosen after identified as the best among the ones tested during the preliminary phase
   curing unit for laboratory; it cures with heat (70°C/80°C)

The comparative analysis highlights the excellent wear resistance of Enamel plus HRi Function, light cured with dentist's curing unit and with Laborlux

## THE MOST RESISTANT COMPOSITE ON THE MARKET

**ENAMEL PLUS HRI FUNCTION IN DENTAL OFFICE** 









Restorations made directly in the dental office. Please note the perfect chromatic and anatomical integration

#### ENAMEL HRI FUNCTION = NATURAL ENAMEL = WEAR = AESTHETICS = UNIQUE!

**ENAMEL PLUS HRI FUNCTION IN LABORATORY** 







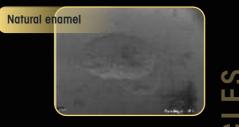




Case finished with adhesive overlays and crown made in HRi Function composite and crown in gold-HRi Function composite on implant. All restorations have been prepared and cemented to respect the new vertical dimension and the new occlusion achieved with diagnostic wax-up and confirmed by occlusal bite and MRI

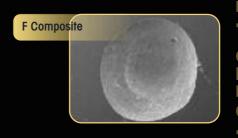
#### **WEAR FACETS**

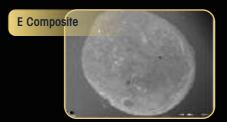
after 120.000 cycles with chewing machine (University of Chieti - Prof. Camillo D'Arcangelo)











# ENAMEL<sup>plus</sup> HRi Function PHYSICAL DATA

Vickers Hardness: Flexural Strenath: Modulus of elasticity

Enamel-composite system to restore function in a micro-invasive way respecti the neuromuscular system and getting a excellent aesthetic integration. Enam shades subject to low abrasion that are comparable to natural enamel. Ideal for use posterior greas with direct or indirect techniq and especially for prosthetic rehabilitations



Clinical cases by Dr. Lorenzo Vanini