

kuraray

Noritake

INTELLIGENT SIMPLIFICATION

CLEARFIL MAJESTY™ ES-2
Universal shades



BORN IN JAPAN

A TRULY UNIVERSAL COMPOSITE

One shade for all posterior restorations
Two shade options for the anterior region
No opaquer required

COMPACT, TIME-SAVING AND HIGHLY AESTHETIC

CLEARFIL MAJESTY™ ES-2 UNIVERSAL SHADE CONCEPT

How many different shades of composite do you need to create appealing restorations in virtually every clinical situation? If you opt for CLEARFIL MAJESTY™ ES-2 Universal shade concept, a few shades will do the trick.

1

1 SHADE FOR POSTERIOR RESTORATIONS

A single universal shade is the go-to solution for all posterior restorations, independent of the colour of the underlying and adjacent tooth structure.

2

2 SHADES FOR ANTERIOR RESTORATIONS

In the aesthetically more demanding anterior region, there are two shade options to choose from.

X

NO OPAQUER NEEDED

A blocker or opaquer is not needed – neither in the posterior nor in the anterior region for your regular cases.





FEATURES

BENEFITS

Excellent aesthetics and ease of use with a reduced number of shades and without opaquer or blocker

► Simplified, time-saving procedure with fewer, potentially error-prone steps, for predictable results and a minimized inventory

Easy sculptability, non-stickiness and long working time

► Convenient handling and enough time for giving the artistic touch to your restorations

Natural and long-term gloss after easy polishing

► Appealing results that last through time

Excellent and superior mechanical properties: low wear, low shrinkage and gentle to the opposing teeth

► Durable restorations



SHADE FOR STRENGTH



CLEARFIL MAJESTY™ ES-2 Universal

THE POSTERIOR RESTORATION SPECIALIST

The great majority of all direct composite restorations are created in the posterior region. It is particularly important that the selected material offers favourable wear properties, a good optical integration and low shrinkage stress. The restoration needs to blend in with the adjacent tissue and to mask the potentially stained underlying tooth structure.

CLEARFIL MAJESTY™ ES-2 Universal accomplishes this task with one universal shade used independent of the tooth colour thanks to Kuraray Noritake Dental's Light Diffusion Technology. The composite integrates easily and smoothly into the surrounding tooth structure and even dark stains at the cavity floor become invisible under the material that absorbs, scatters and diffuses light in the right way. There is no need for the application of a blocker or opaquer to conceal visual flaws in your regular cases.

CLINICAL CASE POSTERIOR



Before



After

Credits: photos by
Dr Piotr Marchewka

BEST IN CLASS

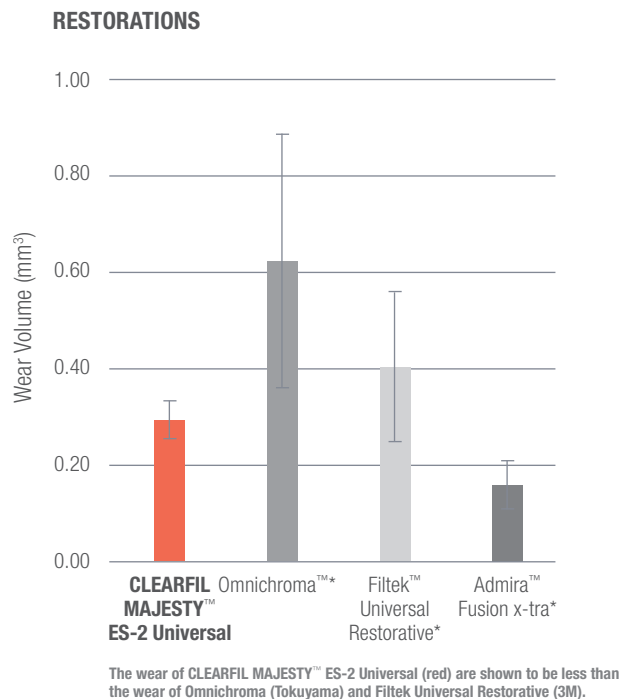
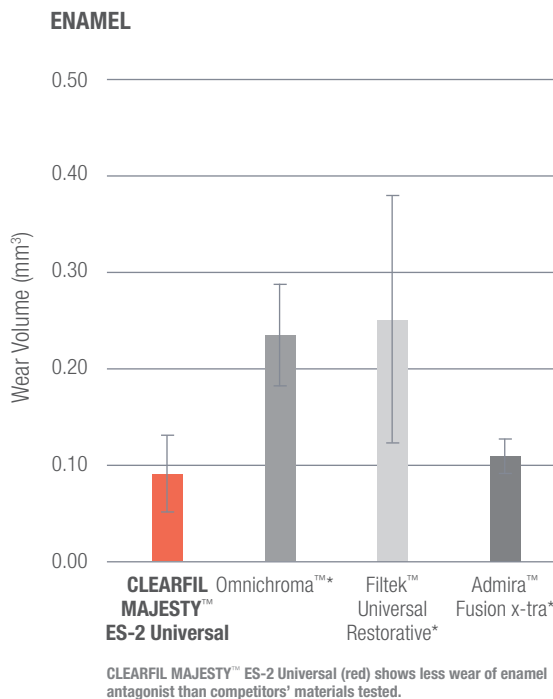
MECHANICAL PROPERTIES

CLEARFIL MAJESTY™ ES-2 Universal performs incredibly well when it comes to key properties of the restorations in the posterior region:

- ✓ a high strength and wear resistance
- ✓ low antagonist wear
- ✓ low shrinkage stress

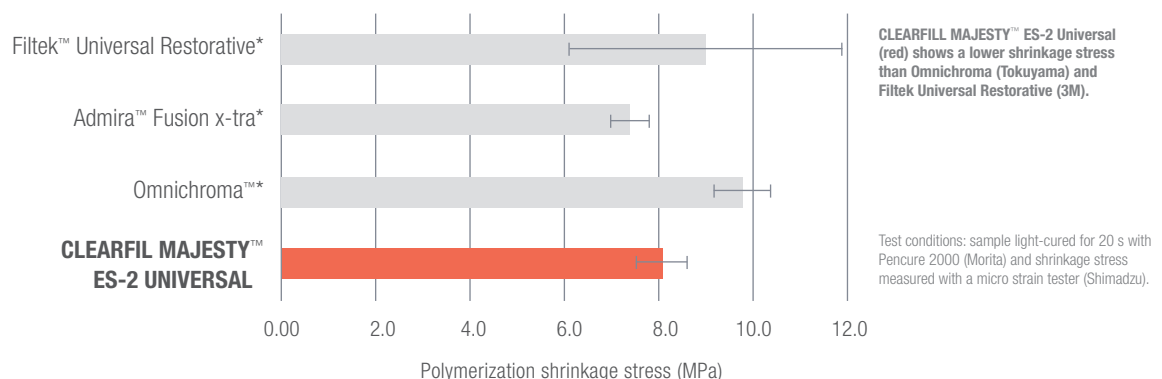
This contributes to the long-term success of direct composite restorations done with CLEARFIL MAJESTY™ ES-2 Universal.

Its well-balanced wear properties ensure a stable occlusion over time, while the antagonist is not affected. The material's low polymerization shrinkage stress helps to prevent marginal discolouration and microleakage that might lead to secondary caries.



Test Conditions: Leinfelder wear test at room temperature in water. Load: 7.9 kg/cm², 400,000 cycles. Antagonist: bovine enamel, polished with #3000 paper. Material: polished with #3000 paper.

LOW POLYMERIZATION SHRINKAGE STRESS





AESTHETIC SHADES



CLEARFIL MAJESTY™ ES-2 Universal Light



CLEARFIL MAJESTY™ ES-2 Universal Dark

FOR ANTERIOR RESTORATIONS

In the anterior region, any visual flaws and discrepancies in colour, translucency or surface structure between teeth and restorations are immediately visible, compromising smile aesthetics. This is why a composite used to restore anterior teeth needs to respond to natural optical dynamics by offering the right level of translucency, a natural gloss that does not wear off over time, and a precise color match to blend in virtually seamlessly.

With two shades of CLEARFIL MAJESTY™ ES-2 Universal designed for the anterior region, Kuraray Noritake Dental is able to fulfill these specific requirements. At the same time, shade selection becomes child's play. Our unique light diffusion technology and the selected translucency ensure a precise optical integration in this area as well, meaning that preparation margins become invisible even without the use of a opaquer. The aesthetic outcome speaks for itself.

CLINICAL CASE ANTERIOR



Before



After

Credits: photos
by Dr Luca Dusi

BEST IN CLASS

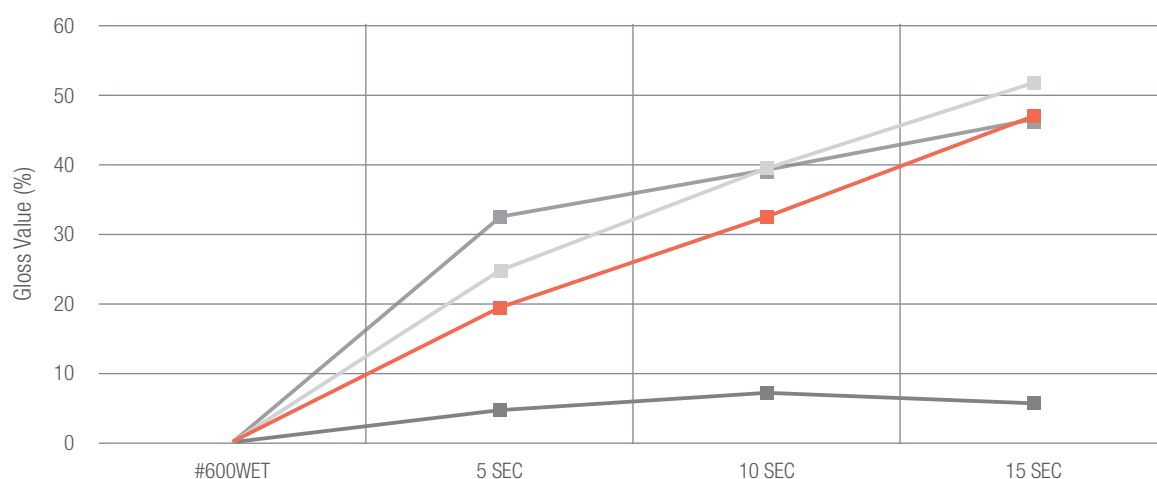
AESTHETICS

The most decisive properties ensuring aesthetic results over time are a material's polishability and gloss retention. With regard to both properties, CLEARFIL MAJESTY™ ES-2 Universal outperforms other products that offer simplified shade selection.

It is very well polishable for a natural, enamel-like appearance, and gloss value remains high even after toothbrush abrasion for great long-term results. The mechanical properties highlighted for the posterior shade options are offered by the anterior shade options as well.

POLISHABILITY

■ CLEARFIL MAJESTY™ ES-2 Universal ■ Filtek™ Universal Restorative* ■ Omnichroma™* ■ Admira™ Fusion x-tra*



With regard to polishability, CLEARFIL MAJESTY™ ES-2 Universal outperforms Admira fusion x-tra (VOC0) and displays high gloss values.

Test conditions: cured sample roughened by sandpaper (#600), polished by silicone polisher for 5~15 s at 10,000 rpm under water, and measured by gloss meter.

* Not a trademark of Kuraray Noritake Dental
Source: Kuraray Noritake Dental Inc.

COMBINING AESTHETICS AND SIMPLICITY

As an aesthetically driven and user-oriented company, Kuraray Noritake Dental aims at offering products that support simplified treatment approaches while ensuring highly aesthetic outcomes. In line with this philosophy, CLEARFIL MAJESTY™ ES-2 Universal shade concept is comprised of the smallest possible shade range required for each region to support high-level aesthetics.

SHADE COMPARISON TABLE

Universal shades are designed to cover all cavity classes with a few shades based on a following chart:

SHADE CATEGORY	CAVITY CLASS	SHADE				
		A1 B1, B2	A2 D2, C1	A3 C2, D3	A3.5 B3, B4	A4 C3, C4
Universal	I 	U Universal				
	II 					
	III 	UL Universal Light		UD Universal Dark		
	IV 					
	V 					

For clinical cases in the anterior region that require high lightness/value, we offer a dedicated white shade (UW).

RESTORATIONS WITH A MAJESTIC TOUCH

As the latest addition to the CLEARFIL MAJESTY™ family of light-curing, radiopaque composite restorative materials, CLEARFIL MAJESTY™ ES-2 Universal shade concept has decades of silane and filler technology under its belt. CLEARFIL MAJESTY™ products are popular among dental practitioners around the globe and renowned for their longevity and low wear over time.

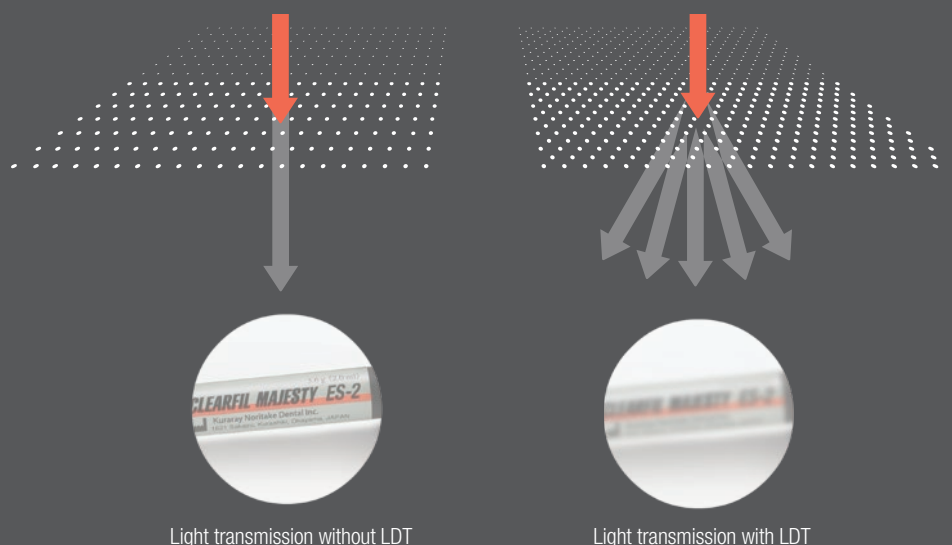
EXCELLENT MECHANICAL PROPERTIES

Flexural strength	118 MPa
Filler load	78 wt%
Compressive strength	347 MPa
Volumetric shrinkage	1.9 %
Curing depth	2.0 mm
Working time under ambient light	270 sec

Source: Kuraray Noritake Dental Inc.

KURARAY NORITAKE DENTAL'S LIGHT DIFFUSION TECHNOLOGY (LDT)

A reduction of the number of shades is possible due to the integration of Kuraray Noritake Dental's **Light Diffusion Technology (LDT)**. This technology makes restorations distort light in a similar way dental tissue does. As a consequence, the material integrates easily and smoothly into the surrounding tooth structure. The outcomes are beautiful in the long term, despite all the procedural simplifications.



Light transmission without LDT

Light transmission with LDT

CLINICAL CASE

SIMPLIFIED POSTERIOR RESTORATION PROCEDURE ELIMINATING SHADE SELECTION

by Dr Piotr Marchewka

Efficiency is an important factor when it comes to restoring posterior cavities with resin composite. It may be achieved by selecting a material that eliminates the need for shade selection and by the use of simplified layering techniques, for example. In the clinical case below, a maxillary first molar and second premolar were restored with CLEARFIL MAJESTY™ ES-2 Universal (U) using the single-shade technique.



Initial situation. Caries lesions are detected on the occlusal and palatal surfaces of the first molar, and in the distal aspect of the second premolar. Rubber dam was placed for moisture control.



Appearance of the teeth following caries removal, selective etching of the enamel, and application of CLEARFIL™ SE BOND 2.



Sectional matrix in place. It is used to facilitate the creation of a proper interproximal contact.



Occlusal view of the final restorations produced with CLEARFIL MAJESTY™ ES-2 Universal.



Mesio-occlusal view of the final restorations. The surfaces were polished with Kuraray Noritake polishing discs.



Disto-occlusal view of the restored teeth.



Palato-occlusal view of the final restorations.



Final situations after rubber dam removal and occlusal adjustments.

PRODUCT ASSORTMENT

CLEARFIL MAJESTY™ ES-2 Universal SYRINGES

- #3181-EU CLEARFIL MAJESTY™ ES-2 Universal (U)
- #3183-EU CLEARFIL MAJESTY™ ES-2 Universal Light (UL)
- #3184-EU CLEARFIL MAJESTY™ ES-2 Universal Dark (UD)
- #3182-EU CLEARFIL MAJESTY™ ES-2 Universal White (UW)



CLEARFIL MAJESTY™ ES-2 Universal PLT

- #3191-EU CLEARFIL MAJESTY™ ES-2 Universal (U)
- #3193-EU CLEARFIL MAJESTY™ ES-2 Universal Light (UL)
- #3194-EU CLEARFIL MAJESTY™ ES-2 Universal Dark (UD)
- #3192-EU CLEARFIL MAJESTY™ ES-2 Universal White (UW)





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- Before using this product, be sure to read the Instructions for Use supplied with the product.
- The specifications and appearance of the product are subject to change without notice.
- Printed color can be slightly different from actual color.

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