INTELLIGENT SIMPLIFICATION

CLEARFIL MAJESTY™ ES-2
Universal shades

A TRULY UNIVERSAL COMPOSITE
One shade for all posterior restorations
Two shade options for the anterior region
No opaquer required

BORN IN JAPAN
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 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 SHADES FOR ANTERIOR RESTORATIONS

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

NO OPAQUER NEEDED

A blocker or opaquer is not needed – neither in the posterior nor in the anterior region for your regular cases.
<table>
<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent aesthetics and ease of use with a reduced number of shades and without opaquer or blocker</td>
<td>Simplified, time-saving procedure with fewer, potentially error-prone steps, for predictable results and a minimized inventory</td>
</tr>
<tr>
<td>Easy sculptability, non-stickiness and long working time</td>
<td>Convenient handling and enough time for giving the artistic touch to your restorations</td>
</tr>
<tr>
<td>Natural and long-term gloss after easy polishing</td>
<td>Appealing results that last through time</td>
</tr>
<tr>
<td>Excellent and superior mechanical properties: low wear, low shrinkage and gentle to the opposing teeth</td>
<td>Durable restorations</td>
</tr>
</tbody>
</table>
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.

THE POSTERIOR RESTORATION SPECIALIST

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CLINICAL CASE POSTERIOR
**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.

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**LOW POLYMERIZATION SHRINKAGE STRESS**

Test conditions: light-cured for 20 s with Pencure 2000 (Morita) and shrinkage stress measured with a micro strain tester (Shimadzu).

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

**FOR ANTERIOR RESTORATIONS**

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**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 are offered by the anterior shade options as well.

<table>
<thead>
<tr>
<th>Gloss Value (%)</th>
<th>#600WET</th>
<th>5 SEC</th>
<th>10 SEC</th>
<th>15 SEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLEARFIL MAJESTY™ ES-2 Universal</td>
<td><img src="source_url" alt="Graph" /></td>
<td><img src="source_url" alt="Graph" /></td>
<td><img src="source_url" alt="Graph" /></td>
<td><img src="source_url" alt="Graph" /></td>
</tr>
<tr>
<td>Filtek™ Universal Restorative*</td>
<td><img src="source_url" alt="Graph" /></td>
<td><img src="source_url" alt="Graph" /></td>
<td><img src="source_url" alt="Graph" /></td>
<td><img src="source_url" alt="Graph" /></td>
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<tr>
<td>Omnichroma™*</td>
<td><img src="source_url" alt="Graph" /></td>
<td><img src="source_url" alt="Graph" /></td>
<td><img src="source_url" alt="Graph" /></td>
<td><img src="source_url" alt="Graph" /></td>
</tr>
<tr>
<td>Admira™ Fusion x-tra*</td>
<td><img src="source_url" alt="Graph" /></td>
<td><img src="source_url" alt="Graph" /></td>
<td><img src="source_url" alt="Graph" /></td>
<td><img src="source_url" alt="Graph" /></td>
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* Not a trademark of Kuraray Noritake Dental
Source: Kuraray Noritake Dental Inc.
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 the following chart:

<table>
<thead>
<tr>
<th>SHADE CATEGORY</th>
<th>CAVITY CLASS</th>
<th>A1</th>
<th>A2</th>
<th>A3</th>
<th>A3.5</th>
<th>A4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal</td>
<td>I</td>
<td>B1, B2</td>
<td>D2, C1</td>
<td>C2, D3</td>
<td>B3, B4</td>
<td>C3, C4</td>
</tr>
<tr>
<td></td>
<td>II</td>
<td>U</td>
<td>U</td>
<td>U</td>
<td>U</td>
<td>U</td>
</tr>
<tr>
<td></td>
<td>III</td>
<td>UL</td>
<td>UL</td>
<td>UL</td>
<td>UL</td>
<td>UL</td>
</tr>
<tr>
<td></td>
<td>IV</td>
<td>UL</td>
<td>UL</td>
<td>UL</td>
<td>UL</td>
<td>UL</td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>UD</td>
<td>UD</td>
<td>UD</td>
<td>UD</td>
<td>UD</td>
</tr>
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</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexural strength</td>
<td>118 MPa</td>
</tr>
<tr>
<td>Filler load</td>
<td>78 wt%</td>
</tr>
<tr>
<td>Compressive strength</td>
<td>347 MPa</td>
</tr>
<tr>
<td>Volumetric shrinkage</td>
<td>1.9 %</td>
</tr>
<tr>
<td>Curing depth</td>
<td>2.0 mm</td>
</tr>
<tr>
<td>Working time under ambient light</td>
<td>270 sec</td>
</tr>
</tbody>
</table>

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.
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)
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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