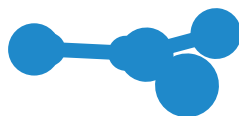




CLEARFIL MAJESTY™ ES Flow



Natural. Simple. Durable.



CLEARFIL MAJESTY™ ES Flow

Natural. Simple. Durable.

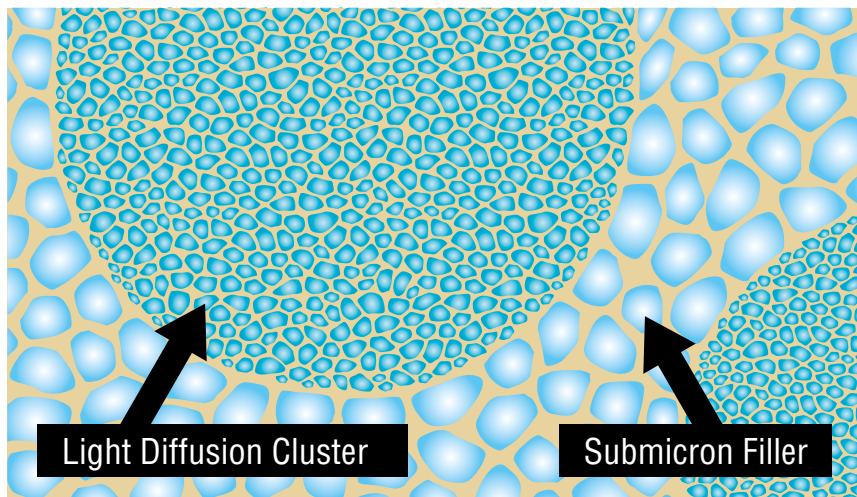
CLEARFIL MAJESTY™ ES Flow is a universal flowable composite, incorporating special submicron filler technology that produces an amazingly high gloss surface. These submicron fillers are treated with a proprietary silane coupling agent, which enables exceptionally high filler loading and delivers superior mechanical properties.



CLEARFIL MAJESTY™ ES Flow

Kuraray Noritake Dental's 3-in-1 universal flowable solution. Our proprietary filler technology combines high polishability, outstanding light diffusion and excellent mechanical properties.

■ Filler Technology



Millions of submicron fillers join forces to reinforce our innovative flowable resin matrix. Incorporating Kuraray Noritake's exclusive silane has resulted in the creation of outstanding gloss on the final cured surface. The ultra fine submicron fillers create light reflections providing a superior natural effect, even after normal wear. The impact of the light diffusion clusters produce superb colour adaption. Kuraray Noritake Dental's goal was to create natural harmony between glossy submicron fillers, light diffusion clusters and our patented silane technology, encompassed in a durable resin matrix. Introducing CLEARFIL MAJESTY™ ES Flow, the universal flowable solution.



High level gloss is achieved without polishing

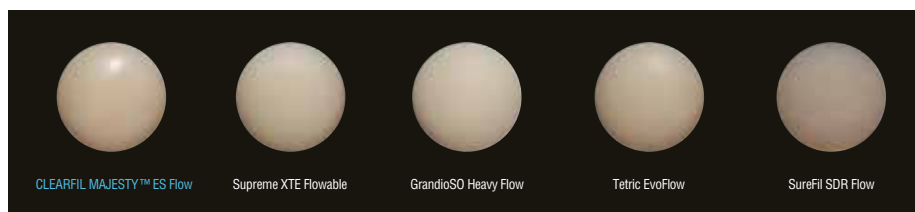


Fig.1: GLOSS AFTER WIPING THE CURED SURFACE WITH ETHANOL

A higher level of polishability can be achieved with a simple 10-20 second, one step polishing technique that will produce an ultra smooth final surface.

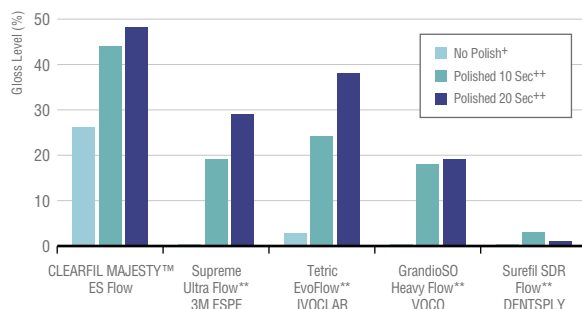


Fig.2: COMPARISON OF GLOSS BEFORE & AFTER POLISH

+ Gloss level of all the materials were measured after ethanol wiping.
 ++Tested materials were polished with the same criteria using Opti1Step Polisher (Kerr Corporation)

Polish retention is a key feature for all composite resins. The filler particles in CLEARFIL MAJESTY™ ES Flow have been designed to produce optimal polish retention.

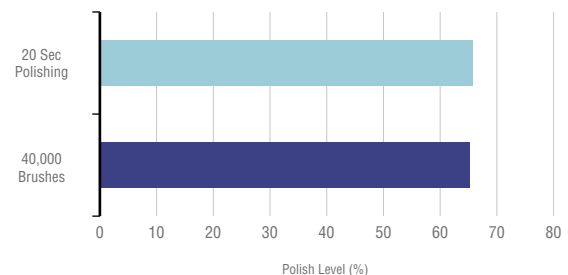


Fig.3: HIGH POLISH RETENTION AFTER TOOTHBRUSH WEAR TEST



Light Diffusion Technology adjusts colour saturation

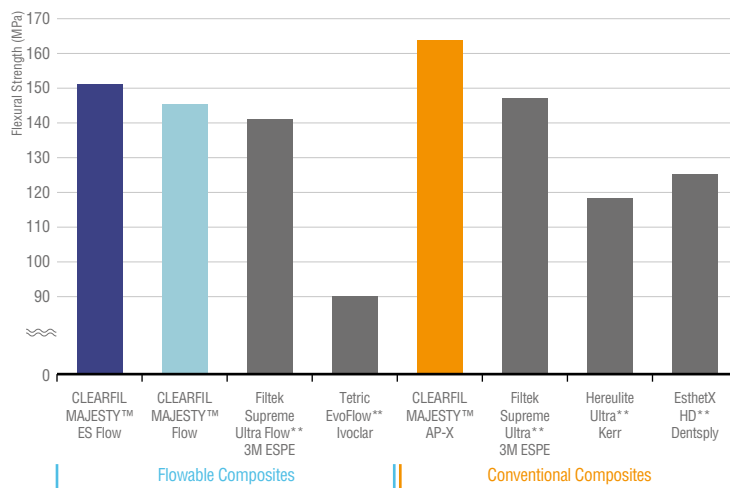


Natural tooth absorbs light and diffuses it in all directions. Kuraray Noritake's Light Diffusion Clusters are designed to diffuse light, similar to that of natural tooth.

Once the correct shade has been selected and the opacities predetermined, the Light Diffusion Technology adds the all important, finishing touch. Adapting the colour saturation of the flowable to the surrounding tooth, our technology mimics the natural light effects of remaining dentine and enamel.



CLEARFIL MAJESTY™ ES Flow exhibits high mechanical strengths



*Compressive strength: 373 MPa

*Radiopacity: 140 %AI

*Working time: Approx. 100 seconds

Fig.4: FLEXURAL STRENGTH COMPARISON

* According to ISO 4049: 2009

** Not a trademark of KURARAY CO.,Ltd

Source: Kuraray Noritake Dental Inc.

■ CLEARFIL MAJESTY™ ES Flow: Clinical Case



Courtesy of Dr. Hirofumi Tashiro

■ Optimal Handling Viscosity

The handling characteristics of CLEARFIL MAJESTY™ ES Flow were vital in the development of this product. The shape and size of the various fillers, delivers superior handling and ensures optimal adaptation to the tooth.



Paste manipulation
with a probe

Thixotropic paste

Fig.5: PASTE HANDLING WITH
PROBE MANIPULATION



Fig.6: PASTE CONSISTENCY AFTER DISPENSING

■ Indications

- Direct restorations for all cavity classes, cervical lesions (e.g. root surface caries, v-shape defects), tooth wear and tooth erosion
- Cavity base/liner
- Correction of tooth position and tooth shape (e.g. diastema closure, tooth malformation)
- Intraoral repairs of fractured restorations

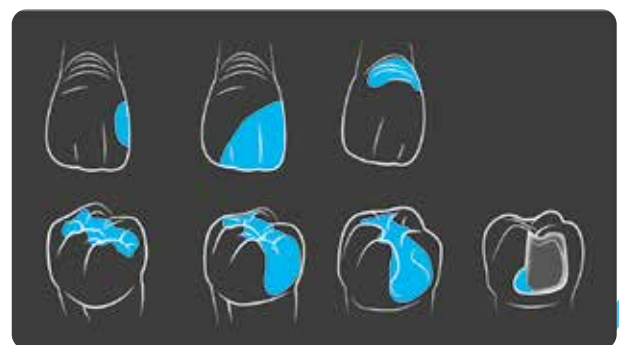


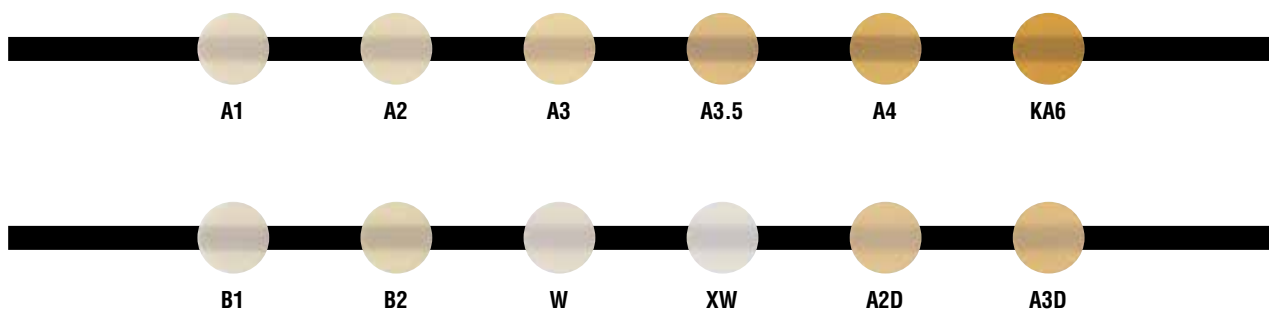
Fig.7: Indications



CLEARFIL MAJESTY™ ES Flow: Shades

1.5ml/2.7g Syringe (Including 15 Needle Tips per pack)

Available shades: A1, A2, A3, A3.5, A4, KA6, B1, B2, W, XW, A2D, A3D



The colours of the actual shade guide may deviate from the printed colours.

Accessories



NEEDLE TIP
20 tips



SHADE GUIDE**
All shades

SHADE GUIDE COMPACT**
A1, A2, A3, A3.5, A4, B1, B2, B3, B4,
C1, C2, C3, C4, D2, D3, XW, W

** Compatible to CLEARFIL MAJESTY™ ES Flow and CLEARFIL MAJESTY™ ES-2

Kuraray Noritake Dental Inc.

In 1926, Kuraray was established in Kurashiki, Japan, where the industrial production of viscose rayon began. Though intensive research and development the company succeeded in building up extensive expertise and technological strength in the fields of polymer chemistry, synthetic chemistry and chemical engineering.

Kuraray entered the field of dental materials in 1973.

The mission of Kuraray was to respond precisely and thoroughly to the needs of the dental profession with reliable products of superior quality. In 1978, Kuraray introduced the first bonding system to the market:

CLEARFIL™ BOND SYSTEM F, the start of the age of adhesive dentistry. At the same time, the company developed the "total-etch technique" for enamel and dentine.

Over four decades, Kuraray Noritake Dental Inc. continues to bring forth innovative, quality products to meet the demands of a continuously changing dental profession.

- Read the Instructions for Use supplied with the products before use.
- The specifications and appearance of the product are subject to change without notice.