



THE QUEEN'S AWARDS
FOR ENTERPRISE:
INNOVATION
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ULTRAISION CLPL N

KERASOFT[®] 3

SILICONE
HYDROGEL

3-MONTHLY LENSES
FOR KERATOCONUS, POST-CXL
AND POST-GRAFT FITTING

Product Guide

www.kerasoft.co.uk

KeraSoft® 3 Fitting System

The KeraSoft®3 fitting system is straight-forward and similar to conventional soft lens fitting techniques.

Fitting Principle

When carrying out a fitting procedure for a Keratoconus patient with a KeraSoft®3 lens, it is essential that the KeraSoft®3 Trial Set is used due to the specific design characteristics involved, which are different to earlier versions.

The initial trial lens chosen is based on the practitioner's assessment of the stage of cone advancement. Keratometry readings may be of limited use if the cornea is distorted. Corneal topography may be useful in assessing the peripheral cornea thus indicating which trial lens to use initially.

KeraSoft®3 Trial Lenses

The 8 trial lenses in the KeraSoft®3 trial set are available in a range of powers (see table below) to assist in fitting and to give the patient useful vision whilst the lens is settling. The trial lenses are supplied in the same Silicone Hydrogel (SiH) material and prismatic form as the final lenses to give reliable indicators of the final lens performance and visual result.

BCOR	Diameter	Power	Approximate K Readings	
8.00 (A)	14.50	-12.00 and -14.00	<6.00	Recommended initial fitting lens for keratoconus with central cones and normal peripheries
8.20 (B)	14.50	-10.00 and -8.00	6.00-6.50	
8.40 (C)	14.50	-6.00 and -4.00	6.50-6.80	
8.60 (D)	14.50	-2.00 and Plano	6.80-7.20	
8.80 *	14.50	Plano	For flatter peripheries see KeraSoft®3 Extended Fitting Guide	
9.00 *	14.50	Plano	For Irregular Corneas see KeraSoft®IC Fitting Guide	

* These parameters are not included in the KeraSoft®3 fitting set but can be ordered separately

The SiH Material

Properties	Attributes
Naturally hydrophilic SiH	Excellent wetting
Lathe cut	Wide range of powers
74% water content	Higher comfort levels
DK 60	Increased oxygen transmission
Modulus 0.38 MPa	Faster settling time
High water retention	Longer wearing times

Lens Care

These lenses are compatible with all current chemical and oxidative systems. Care should be taken to follow solution manufacturers' instructions.

Fitting Procedure for Keratoconic Eyes

Step 1	Fit a trial lens from the KeraSoft®3 trial set according to the recommendation table opposite, matching the BVP as closely as possible. Note: All KeraSoft®3 fitting procedures must use the KeraSoft®3 trial set. KeraSoft®2 trial lenses cannot be used due to the different design characteristics.
Step 2	Allow the trial lens to settle for 5 - 10 minutes and then assess the initial fit. <ul style="list-style-type: none"> • If there is less than 0.5mm of lens movement on a blink, (large bubbles may be evident), try a new trial lens with a flatter BCOR. • Any lens that is obviously rotating is likely to be tight. It is best to try and fit lenses so that the laser mark is vertical. • If there is greater than 1.0mm of lens movement on blink, try a new trial lens with a steeper BCOR. • If the lens decentres markedly or drops significantly on upward gaze, try a new lens with a steeper BCOR. A lens with more movement than 1.0mm, but centring well, is likely to settle.
Step 3	When a good fit is achieved, allow the lens to settle for 20-25 minutes and then carry out an over refraction to establish the Sphere, Cyl, Axis required. Note the orientation of the vertical laser mark.
Step 4	Decide on the Overall Diameter (OD) to order. Please note the following points: <ul style="list-style-type: none"> • Decreasing the OD to 14.00mm will flatten the fit • Take into account the Horizontal Visible Iris Diameter (HVID)
Step 5	Order a single lens (which includes a full fitting warranty), stating: <ul style="list-style-type: none"> • The lens series (or BCOR) and BVP of the trial lens used • The over refraction result and laser mark orientation • Back Vertex Distance (BVD) from over refraction • The Overall Diameter (OD) required

Ideal Fitting Characteristics

After the lens has been in the eye for a period of 5 to 10 minutes, the following should be observed in an ideally fitting lens:

- If bubbles form under the lens on insertion, these should settle within 2 to 3 minutes
- There should be vertical movement of approximately 1.00mm after a blink
- The lens should have a fast positive return to the central position after manual displacement
- The laser mark should be vertical for an ideal fit.

The Definitive™ SiH material has unique elastic properties which contribute to a ‘springy’ feel to the lens, which means that the lens does not drape over the cornea in the same way as conventional materials. Thus, if a lens is fitted so it is tight at the mid-periphery, it will tend to spring off the central cornea post blink and give fluctuating vision.

If possible, assess the peripheral cornea using topography and use the mid-peripheral readings as a guide for the first fitting lens. If in doubt, use the radius of curvature readings of the area adjacent to the cone area as a basis for first lens choice. If only keratometry readings are available, then it is recommended that the fit is flatter than for a normal soft lens fitting. It is easier to start with a flatter fitting and, if needed, go steeper.

Tight lenses tend to have little movement on straight ahead gaze, but may rotate back and forth after the blink on upward gaze. Although this may appear to be a mobile fit, it is as a result of the ‘springy’ material. A flat lens will drop down on upward gaze and tends to decentre on straight ahead gaze.

Over Refraction

When the final fit has been achieved, the over refraction should be assessed using standard refractive techniques. It can be helpful to perform keratometry or topography with the trial lens in-situ to assess the cylinder and axis required.

For single vision corrections record the Sphere, Cyl, Axis and Back Vertex Distance (BVD) of the spectacle lenses.

Ordering

When ready to order the final lenses, the following package options are available:

Single Lens	Contents: 1 right or 1 left lens. Full fitting warranty included. Recommended for use when ordering a first lens after a fitting procedure.
2-Pack	Contents: 2 right or 2 left lenses. No fitting warranty is available. Recommended for use where the fit is stable and no exchanges are required.

Material	Definitive™ Silicone Hydrogel (Filcon V 3), 74% water content
Modulus	0.38 MPa (Typical of mid water content materials)
Base Curves	Series 8.00 (A), 8.20 (B), 8.40 (C), 8.60 (D) *
Diameter	14.00mm 14.50mm 15.00mm
Design	Front surface Asphere or Aspheric Toric prism ballasted with inferior orientation Balanced overall thickness Wavefront Aberration Control
Power Range	Sphere: +30.00DS to -30.00DS ** Cylinder: -0.50 to -11.00DC (in 0.25 steps) Axis: 1° to 180° (in 1° steps) Add up to + 3.00
Handling Tint	Clear
DK	60 x 10 ⁻¹¹ (cm ² /sec)[mlO ₂ /(ml x mmHg)]
Wear Modality	3-monthly lens for daily wear
Pack Size	Single Lens, 2-Pack

* 8.80 and 9.00 available if required

** Extended range of powers available to order

Definitive™ is a trademark of Contamac Ltd

Simple Fitting System

- **KeraSoft® 3** has a simple fitting system, making it accessible to all contact lens practitioners

Healthy & Comfortable

- Silicone Hydrogel material with 60 DK (Approximately four times the oxygen permeability of standard soft lenses)
- Very high water retention properties, providing a more healthy and comfortable lens for the eye, even in dry conditions
- Greater comfort than RGP lenses and other soft keratoconic lenses
- Softer on the eye than RGP lenses

Clearer Vision

- Stable on-eye parameters, providing consistent, stable vision
- Patented optics design provides clearer vision in all conditions
- Reduced “drape” effect providing clearer vision for distorted corneae
- Front surface toric design provides a stable base for fitting and over-refraction, even with cylindrical powers as high as -11.00DC

Wide range of prescriptions

- Sphere power +30.00DS to -30.00DS
- Cylinder power -0.50DC to -11.00DC
- Cylinder Axis 1° to 180°
- Add up to +3.00DS

Technical Support

We have a team of optometrists and contact lens practitioners specialising in different areas who are available to provide help and support. If you have any professional or technical enquiries please contact our Customer Services Team.



ULTRAVISION CLPL
INNOVATION IN PRACTICE

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