

Curing time guide

bluephase® C8



bluephase®



bluephase® 20i



Light intensity

800 mW/cm² ± 10%

1.200 mW/cm² ± 10%

2.000 – 2.200 mW/cm²
LED Class 2

Exposure time for composites
Exposure time for Tetric EvoCeram/
IPS Empress Direct

20 sec.
15 sec.

15 sec.
10 sec.

10 sec.
5 sec.

TURBO Program



Consistently high light intensity for the polymerization of restorative and cementation materials for direct and indirect restorations.

Filling materials

Composite

2mm¹⁾

IPS Empress Direct / IPS Empress Direct Flow / Tetric EvoCeram / Tetric EvoFlow / Tetric / Tetric Basic White / Tetric N-Ceram / Tetric N-Flow

Heliomolar / Heliomolar HB / Heliomolar Flow / Others¹⁾

4mm²⁾

Tetric EvoCeram Bulk Fill

Tetric Basic White

Compomer³⁾

Compoglass F / Compoglass Flow

Indirect restorations / Luting material

Variolink II Base⁴⁾ / Variolink Veneer / Variolink N Base⁴⁾ / Variolink N Clear Veneer / Variolink Ultra⁵⁾ / Dual Cement⁵⁾ / Variolink II⁵⁾

Miscellaneous

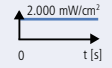
Heliosit Orthodontic

Telio Add-On Flow

Telio Stains

IPS Empress Direct Color

IPS Empress Direct Opaque



5 sec

2x 5 sec

5 sec

2x 5 sec

2x 5 sec

per mm ceramic:
1x 5 sec per surface

2x 5 sec

2x 5 sec

5 sec

5 sec

2x 5 sec

HIGH POWER Program



Consistently high light intensity for the polymerization of restorative and cementation materials for direct and indirect restorations.

Filling materials

Composite

2mm¹⁾

IPS Empress Direct / IPS Empress Direct Flow / Tetric EvoCeram / Tetric EvoFlow / Tetric / Tetric Basic White / Tetric N-Ceram / Tetric N-Flow

Heliomolar / Heliomolar HB / Heliomolar Flow / Others¹⁾

4mm²⁾

Tetric EvoCeram Bulk Fill

Tetric Basic White

Compomer³⁾

Compoglass F / Compoglass Flow

Indirect restorations / Luting material

Variolink II Base⁴⁾ / Variolink Veneer / Variolink N Base⁴⁾ / Variolink N Clear Veneer / Variolink Ultra⁵⁾ / Dual Cement⁵⁾ / Variolink II⁵⁾

Miscellaneous

Helioseal / Helioseal F / Helioseal Clear

Monopaque

MultiCore Flow / MultiCore HB

Heliosit Orthodontic

Telio Add-On Flow

Telio Stains

Telio CS Link / Systemp. link

IPS Empress Direct Color

IPS Empress Direct Opaque



15 sec

20 sec

15 sec

20 sec

40 sec

per mm ceramic:
10 sec per surface

20 sec

30 sec

40 sec

20 sec

20 sec

20 sec

15 sec

15 sec per surface

30 sec

30 sec



10 sec

15 sec

10 sec

10 sec

20 sec

per mm ceramic:
10 sec per surface

10 sec

20 sec

20 sec

20 sec

10 sec

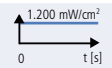
10 sec

10 sec per surface

20 sec

20 sec

20 sec



10 sec

15 sec

10 sec

10 sec

20 sec

per mm ceramic:
10 sec per surface

10 sec

20 sec

20 sec

20 sec

10 sec

10 sec

10 sec per surface

20 sec

20 sec

LOW POWER Program



Reduced light intensity with reduced heat development for the polymerization of adhesives, liners, and restorative materials in areas near the pulp when restoring Class V cavities

Adhesives

Syntac / Heliobond

ExiTE F / ExiTE F DSC

AdheSE / AdheSE F

Tetric-N Bond / Tetric N-Bond Self-Etch

Temporary materials

Telio CS Inlay/Onlay

Systemp.inlay/onlay

Fermit / Fermit N

Telio CS Link / Systemp.link

Miscellaneous

Heliosit Orthodontic

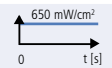
Vivaglass Liner



10 sec



10 sec



10 sec

20 sec per surface

10 sec per surface

20 sec per surface

20 sec

20 sec

800 mW/cm²

650 mW/cm²

0 5 t [s]

1.200 mW/cm²

650 mW/cm²

0 5 t [s]

1.200 mW/cm²

650 mW/cm²

0 5 t [s]

Filling materials

Composite

2mm¹⁾

IPS Empress Direct / IPS Empress Direct Flow / Tetric EvoCeram / Tetric EvoFlow / Tetric / Tetric Basic White / Tetric N-Ceram / Tetric N-Flow

Heliomolar / Heliomolar HB / Heliomolar Flow / Others¹⁾

4mm²⁾

Tetric EvoCeram Bulk Fill

Tetric Basic White

Compomer³⁾

Compoglass F / Compoglass Flow

20 sec

25 sec

20 sec

25 sec

40 sec

15 sec

15 sec

15 sec

20 sec

20 sec

15 sec

20 sec

15 sec

15 sec

20 sec

SOFT START Program



Step-by-step increase of the light intensity with reduced shrinkage stress and heat development for the polymerization of restorative materials

1) Applies to a maximum layer thickness of 2 mm provided that the Instructions for Use of the respective material does not state any other recommendation (might be the case with dentin shades)

2) Applies to a maximum layer thickness of 4 mm provided that the Instructions for Use of the respective material does not state any other recommendation (might be the case with dentin shades)

3) Applies to a maximum layer thickness of 3 mm 4) Applies to light-curing (exclusive use of base paste) 5) Applies to dual-curing

Curing time guide

LEDition®



Light intensity	typically 600mW/cm ² [min. 500 / max. 900]
Exposure time for composites	20 sec.
Exposure time for Tetric EvoCeram/ IPS Empress Direct	15 sec.



Consistently high light intensity for the polymerization of adhesives, restorative and cementation materials for direct and indirect restorations.

HIGH POWER Program

	600 mW/cm ² 0 t [s]
Filling materials	
Composite 2mm ¹⁾	
IPS Empress Direct / IPS Empress Direct Flow / Tetric EvoCeram / Tetric EvoFlow / Tetric / Tetric Basic White / Tetric N-Ceram / Tetric N-Flow	20 sec
Heliomolar / Heliomolar HB / Heliomolar Flow / Others ¹⁾	30 sec
4mm²⁾	
Tetric EvoCeram Bulk Fill	20 sec
Tetric Basic White	20 sec
Compomer³⁾	
Compoglass F / Compoglass Flow	40 sec
Indirect restorations / Luting material	
Variolink II Base ⁴⁾ / Variolink Veneer / Variolink N Base ⁴⁾ / Variolink N Clear Veneer / Variolink Ultra ⁵⁾ / Dual Cement ⁵⁾ / Variolink II ⁵⁾	per mm ceramic: 20 sec per surface
Adhesives	
Syntac / Heliobond	
Excite F / Excite F DSC	
AdheSE / AdheSE One F	10 sec
Tetric N-Bond / Tetric N-Bond Self-Etch	
Temporary materials	
Telio CS Inlay/Onlay	
Systemp.inlay/onlay	10 sec
Fermit / Fermit N	
Telio CS Link / Systemp.link	20 sec per surface
Miscellaneous	
Helioseal / Helioseal F / Helioseal Clear	20 sec
Monopaque	40 sec
MultiCore Flow / MultiCore HB	40 sec
Vivaglass Liner	30 sec
Telio Add-On Flow	30 sec
Telio Stains	20 sec
IPS Empress Direct Color	40 sec
IPS Empress Direct Opaque	40 sec
Heliosit Orthodontic	40 sec

1) Applies to a maximum layer thickness of 2 mm provided that the Instructions for Use of the respective material does not state any other recommendation (might be the case with dentin shades)
 2) Applies to a maximum layer thickness of 4 mm provided that the Instructions for Use of the respective material does not state any other recommendation (might be the case with dentin shades)
 3) Applies to a maximum layer thickness of 3 mm 4) Applies to light-curing (exclusive use of base paste) 5) Applies to dual-curing