

# Curing time guide

## TURBO Program



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

## HIGH POWER Program



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

## 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

## SOFT START Program



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

## Bluephase® C8 Bluephase® Style Bluephase® 20i



Light intensity

800 mW/cm<sup>2</sup> ± 10%

1.100 mW/cm<sup>2</sup> ± 10%

2.000 – 2.200 mW/cm<sup>2</sup>  
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.

### Filling materials

#### Composite

2mm<sup>1)</sup>

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 / Others<sup>1)</sup>

4mm<sup>2)</sup>

Tetric EvoCeram Bulk Fill

Tetric Basic White

#### Compomer<sup>3)</sup>

Compoglass F / Compoglass Flow

### Indirect restorations / Luting material

Variolink II Base<sup>4)</sup> / Variolink Veneer / Variolink N Base<sup>4)</sup> / Variolink N Clear Veneer /

Variolink Ultra<sup>5)</sup> / Dual Cement<sup>5)</sup> / Variolink II<sup>5)</sup>

### 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

### Filling materials

#### Composite

2mm<sup>1)</sup>

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 / Others<sup>1)</sup>

4mm<sup>2)</sup>

Tetric EvoCeram Bulk Fill

Tetric Basic White

#### Compomer<sup>3)</sup>

Compoglass F / Compoglass Flow

### Indirect restorations / Luting material

Variolink II Base<sup>4)</sup> / Variolink Veneer / Variolink N Base<sup>4)</sup> / Variolink N Clear Veneer /

Variolink Ultra<sup>5)</sup> / Dual Cement<sup>5)</sup> / Variolink II<sup>5)</sup>

### 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

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

10 sec

15 sec

10 sec

10 sec per surface

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

10 sec

15 sec

10 sec

10 sec per surface

20 sec

20 sec



10 sec



10 sec



10 sec

### 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



20 sec

25 sec



10 sec

20 sec



15 sec

20 sec

15 sec

15 sec

### Filling materials

#### Composite

2mm<sup>1)</sup>

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 / Others<sup>1)</sup>

4mm<sup>2)</sup>

Tetric EvoCeram Bulk Fill

Tetric Basic White

#### Compomer<sup>3)</sup>

Compoglass F / Compoglass Flow

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

# Curing time guide

## LEDition®



|  |  |
|--|--|
| Light intensity  | typically 600mW/cm <sup>2</sup><br>[min. 500 / max. 900] |
| Exposure time for composites                             | 20 sec.  |
| Exposure time for Tetric EvoCeram/<br>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 <sup>2</sup><br>0 t [s]     |
|---|---------------------------------------|
| <b>Filling materials</b>  |                                       |
| <b>Composite</b>  |                                       |
| 2mm <sup>1)</sup>   |                                       |
| 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 <sup>1)</sup>   | 30 sec                                |
| 4mm <sup>2)</sup>   |                                       |
| Tetric EvoCeram Bulk Fill   | 20 sec                                |
| Tetric Basic White  | 20 sec                                |
| <b>Compomer</b> <sup>3)</sup>   |                                       |
| Compoglass F / Compoglass Flow  | 40 sec                                |
| <b>Indirect restorations / Luting material</b>  |                                       |
| Variolink II Base <sup>4)</sup> / Variolink Veneer / Variolink N Base <sup>4)</sup> / Variolink N Clear Veneer / Variolink Ultra <sup>5)</sup> / Dual Cement <sup>5)</sup> / Variolink II <sup>5)</sup> | per mm ceramic:<br>20 sec per surface |
| <b>Adhesives</b>  |                                       |
| Syntac / Heliobond  |                                       |
| Excite F / Excite F DSC   | 10 sec                                |
| AdheSE / AdheSE One F   |                                       |
| Tetric N-Bond / Tetric N-Bond Self-Etch   |                                       |
| <b>Temporary materials</b>  |                                       |
| Telio CS Inlay/Onlay  |                                       |
| Systemp.inlay/onlay   | 10 sec                                |
| Fermit / Fermit N   |                                       |
| Telio CS Link / Systemp.link  | 20 sec per surface                    |
| <b>Miscellaneous</b>  |                                       |
| 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