

heydent<sup>■</sup>

Experience the difference

2024

Dental-  
Materials

Made in Germany



heydent  
Experience the difference

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## HEYTEC-NC

**HEYTEC Nano Ceramic** is a ceramic-like, light-curing nano ceramic filling material for long-lasting fillings, with significantly reduced sensitivity to ambient light physical values. **HEYTEC Nano Ceramic** is indicated for restorations of all cavity making inlays, onlays and veneers.

material and a multi- and excellent classes and for

# HEYTEC-NC

## Nano Ceramic



Order number	1x 5g syringe
HE011 - A1	HE018 - Inc Blue
HE012 - A2	HE019 - Inc Clear
HE013 - A3	HE020 - Inc White
HE014 - A3,5	HE027 - BLE
HE015 - OA2	HE028 - BLX
HE022 - OA3	HE073 - Set 8x5g
HE016 - B1	HE078 - Set 8x5g+Bond
HE017 - B2	HE078 - Set 8x5g+Etchbond
HE021 - Inc Medium	

### Advantages

- abrasion resistance
- low shrinkage
- "Chameleon effect" for excellent aesthetics
- easy polishing
- long lasting shine
- comfortable modeling
- non sticky effect
- wide range of applications

### TECHNICAL DATA

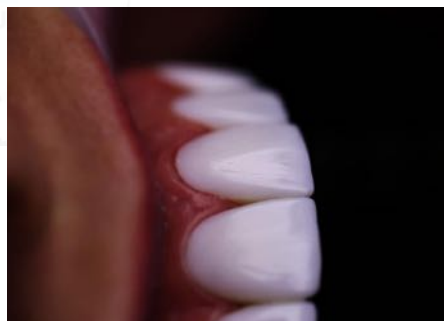
- Vickers Hardness  $\geq 539$  MPa
- Flexural Strength  $\geq 142$  MPa
- E-Module 16.575 MPa
- Compressive Strength  $\geq 400$  MPa
- Tensile Strength  $\geq 45$  Mpa
- Vol. shrinkage: 1,66%
- Radiopacity: 100%Al

# HeyTEC-BLEACH-X BLEACH



**HEYTEC BLEACH & BLEACH-X** is a ceramic hybrid composite material which is widely used for direct composite veneer cases. The excellent handling and material properties guarantee highly esthetic works. **HEYTEC BLEACH** is already white, but the extra bleach color is even whiter.

Order number	1x 5g syringe
HE025 - BLEACH	
HE026 - BLEACH-X	



Direct Composite Veneers with HeyTEC BLEACH-X

# HEYTEC-NR

HEYTEC NR is our new revolutionary Nano Composite in the Heydent restorative family.

HEYTEC-NR is a Multi-Talent for long-lasting fillings and with significantly reduced sensitivity to ambient light plus excellent physical values. Indicated both, for restorations of all cavity classes and for making inlays, onlays and veneers.



# HEYTEC-NR

Nano Revolution

### Compare to:

**Venus Diamond (Heraeus Kulzer),  
IPS Empress Direct (Ivoclar Vivadent),  
Filtek Supreme XTE (3M Espe),  
Amaris (VOCO)**

Order number	1x 4g Syringe
HE511 - A1	HE521 - OA3
HE512 - A2	HE515 - B1
HE513 - A3	HE570 - Set 8x4g
HE514 - A3,5	HE578 - Set 8x4g+Bond
HE520 - OA2	HE076 - Set 8x4g+Etchbond

### TECHNICAL DATA

- Vickers hardness  $\geq 637$  MPa
- Flexural strength  $\geq 120$  MPa
- E-Module 12.316 MPa
- Compressive strength  $\geq 360$  MPa

### Features

Features	Benefits
Improved formula	Optimized working time
Nano technology	High physical values
Excellent mechanical properties	Longevity for long-lasting fillings
Wide range of shades	Natural looking restorations

# HEYTEC-MR

**HEYTEC-MR** is a universal light cure filling material with a high content of inorganic filler. **HEYTEC-MR** is perfect for direct restorations in both the anterior and posterior areas and for making inlays, onlays and veneers.

**HEYTEC-MR** is also suitable for core build-up and extended fissure sealing. The special combination of macro and micro fillers gives **HEYTEC-MR** its outstanding physical properties and makes it easy to polish. Thanks to these excellent qualities, this material is extremely plaque-resistant.

**HEYTEC-MR** is scientifically proven to be especially biocompatible and gentle to the gums.

## TECHNICAL DATA

- Vickers Hardness  $\geq 539$  MPa
- Flexural Strength  $\geq 120$  MPa
- E-Module 11.173 MPa
- Compressive Strength  $\geq 400$  MPa
- Tensile Strength  $\geq 45$  Mpa

Order number	1x 4g syringe
HE411 - A1	HE427 - Incisial
HE412 - A2	HE425 - Bleach
HE413 - A3	HE426 - Bleach-X
HE414 - A3,5	HE470 - Set 8x4g
HE416 - B1	HE478 - Set 8x4g+Bond
HE417 - B2	HE476 - Set 8x4g+Etchbond

# HEYTEC-MR

New microhybrid technology

## ADVANTAGES

- Indicated for use in direct restorations of all cavity classes.
- Scientifically tested
- Highly advanced physical properties
- Excellent mechanical data
- Polishes well, homogenous surface, special particle structure
- Radiopaque
- Innovative colour scale, wide range of shades and highly- transparent incisal masses



# HEYTEC-Universal HEYTEC-Universal BLOCK

**HeyTEC Universal** was developed for users who only want to use a shade-adaptive composite which can be used for all natural tooth shades for anterior and posterior restorations. **HeyTEC Universal** shows excellent physical properties and good handling features. The total filler content is 75 % by weight.

## ADVANTAGES

- High transparency
- Radiopaque
- Excellent chameleon Effect
- One shade covers nearly all tooth colors

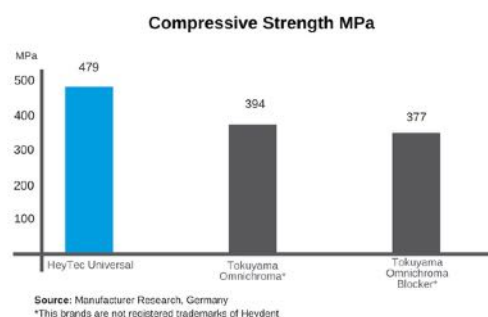
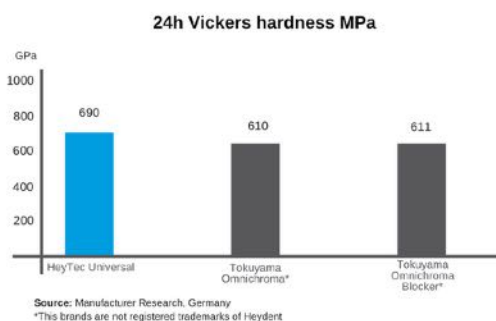
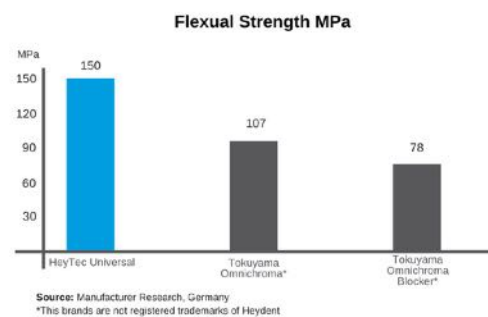
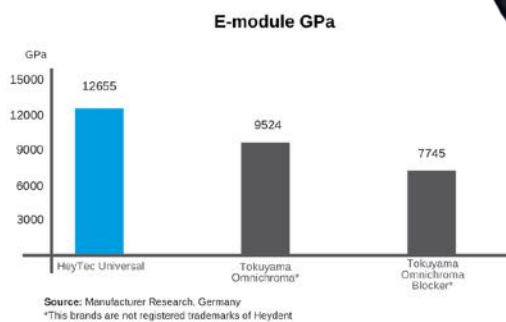
## TECHNICAL DATA

- Vickers Hardness 790 MPa
- Flexural Strength 150 MPa
- E-Module 12.655 GPa
- Compressive Strength 479 MPa

Order number	1x 4g syringe
HE432 - Universal Color	
HE433 - Universal Block	

# HEYTEC-Universal CHAMELEON effect

In case of heavily discolored cavities you can use **HEYTEC-Universal Block**, an opaque blocker, used for cavities in Class III or IV cases to cover the color and create a base for **HEYTEC-Universal**



## HEYTEC-Bulk

**HEYTEC-Bulk** is a flowable composite for direct fillings, using the Bulk Fill technique. Thanks to the optimal ratio of flowability to elasticity, it is quick and convenient to apply and shape.



**HEYTEC-Bulk** is intended for single-step reconstructions, but also layer technique.

The special monomer matrix ensures that the material adapts perfectly to cavity walls, even with the presence of undercuts.

## Features

### HEYTEC-Bulk

- up to 4 mm layers
- universal dentin shade with „chameleon” effect
- optimal ratio of flowability to elasticity
- excellent physical and mechanical properties
- high radiopacity (210% Al)
- Bis-Gma free

## Benefits

### HEYTEC-Bulk

- highly efficient handling
- saves time
- excellent adaption to cavity bottom and walls
- high quality, long-lasting posterior restorations
- perfect visual control
- optimised biocompatibility



### TECHNICAL DATA

- Bonding strength to dentine: 26 MPa
- Bonding strength to enamel: 24 MPa
- Vickers hardness  $\geq 588$  MPa
- Flexural strength  $\geq 115$  MPa
- E-Module 12.316 MPa
- Compressive strength  $\geq 320$  MPa

Order number	Universal Dentin
HE095 UD 2g syringe	
HE096 UD 10 x 0,2g compules	



## HEYTEC-Flow-V

**HEYTEC-Flow-V** is a new generation of a light-curing and radiopaque flow composite for direct restorations, relinings, as well as sealing fissures. **HEYTEC-Flow-V** is flowable as well as viscous when necessary and adapts nicely to cavity walls. The ideal flow characteristics simplify the restoration.

## Features

### HEYTEC - Flow-V

- Optimal flow behaviour
- excellent physical and mechanical properties
- high radiopacity (210% Al)
- Bis-Gma free

### TECHNICAL DATA

- Vickers hardness  $\geq 588$  MPa
- Flexural strength  $\geq 115$  MPa
- E-Module 12.316 MPa
- Compressive strength  $\geq 320$  MPa
- Filler content approx. 77%
- Radiopacity 100% Al

Order number	1x 1,2ml syringe
HE611 A1	HE615 B1
HE612 A2	HE618 Clear
HE613 A3	HE619 Bleach
HE614 A3,5	

## Benefits

### HEYTEC - Flow-V

- Both flowable and viscous No running or dripping, easy and highly precise application. Even penetrates into areas that are difficult to reach
- Stable and long-lasting restorations
- perfect visual control
- optimized biocompatibility



## HEYTEC-MoLi



## Modeling Liquid

**HEYTEC-MoLi** is the solution to build up resin composite (RC) restorations, easy, fast & efficient.

Order number	1x bottle a 5ml
HE004	

# H-ETCHBOND

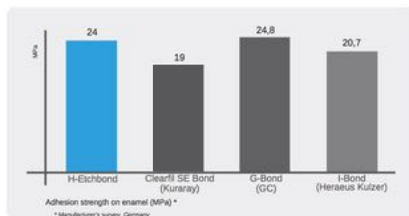
**H-ETCHBOND** is a selfetching, light-curing one-component, single-layer bonding system of the seventh generation! Developed to simplify the bonding procedure, while ensuring excellent quality and strong bonding.

## 7 Generation

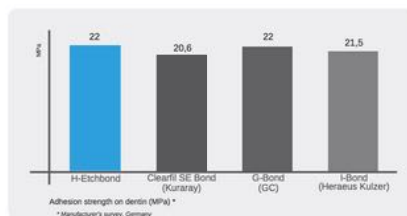
## 7.Generation

One of the strongest bonds - test and compare!

Adhesion strength on enamel



Adhesion strength on dentin



Amongst the most popular selfetching systems, **H-ETCHBOND** is characterized by its outstanding adhesion properties. Only one layer of **H-ETCHBOND** is required to obtain a strong and long-lasting bond of light-curing composites to enamel and dentin.

Order number 1x bottle a 5ml  
HE003

# H-BOND

**H-BOND** is a light-curing system of the Prime / Bond type of the 5th generation and offers a strong bond of all composite materials to dentin and enamel! **H-BOND** has been developed for light-curing materials, but when combined with **H-BOND Activator**, **H-BOND** becomes a chemically or dual-curing system that is perfect for root canals! It can also be used with chemically and doubly hardening materials.

# H-BOND Activator



Order number 1x bottle a 5ml  
HE001

Order number 1x bottle a 3ml  
HE002

## HEYTEC Temp

Highly esthetic 4:1 composite material for provisional crowns and bridges inlays, onlays and veneers

### Properties

- High fracture resistance also in very thin layer such as edges of crowns or thin veneers
- Very aesthetic appearance with high colour stability and natural fluorescence
- Material of the latest generation with mixing ratio 4:1
- Very high mechanical durability and excellent elasticity
- Optimal for long bridges with high durability
- Excellent fit due to minimal polymerisation shrinkage
- High abrasion resistance
- Excellent polishability
- Safe and quick handling with self mixing cartridge system
- Direct chairside application due to low curing temperature
- Final preparation after only 5 min

### TECHNICAL DATA

- Working time at 23 ° C / 73 °F 0:50 min
- Shore-D-hardness 75
- Barcol-hardness 36
- Flexural strength 88 MPa
- Compressive strength 304 MPa
- Diametral tensile strength 44 MPa
- Elasticity Modulus 2,7 GPa

# Temporary Crown and Bridge Material

### Easy application and preparation

HEYTEC Temp can be mixed and applied automatically, which ensures the homogenous consistency of the material. Formation of air bubbles is avoided and the risk of cracks is minimized. Controlled chemical curing of the material allows the convenient application

inside and outside of the patient's mouth.

The easy excess removal with a scalpel or scissors is done, before the final preparation with the rotary instrument, during the elastic phase.

Order number	1x 50ml, 10x MixTips
HE089 - A1	
HE056 - A2	
HE090 - A3	
HE093 - Bleach	



## HeyTEC CemX

HeyTEC CemX is a dual-cure, highly radio-opaque, fluorescent and highly abrasion-resistant flowable self-adhesive resin cement for various types of indications

# Universal Resin Cement

HeyTEC CemX is for various indications such as all-ceramic, composite or metal inlays, onlays, crowns and bridges, posts, 3-unit inlay/onlay bridges, all-ceramic, 2- or 3-unit maryland bridges and veneers plus **HeyTEC CemX can also used for core build up.**

HeyTEC CemX is the latest generation of self-adhesive resin cements.

### TECHNICAL DATA

- Vickers hardness - >549 MPa
- Compressive strength - >290 MPa
- Flexural strength - >118 MPa
- E-Module - >12039 MPa
- Tensile strength - 45 MPa
- Radiopacity - 210%
- Polymerisation - 7-9 Minutes



Order number	1x 8g syringe
HE033	semi transparent
HE034	A1
HE035	A2
HE036	A3
HE037	B1

## Features

HeyTEC - CemX

- One material for three indications
- High viscosity
- Automix cartridge
- Highly radiopaque
- High filler content
- Excellent physical data
- Dual-curing
- Bis-Gma free

## Benefits

HeyTEC - CemX

- Optimal "interface" between pin-cement-dentin-crown
- Highly abrasion resistant
- Very comfortable handling
- Long-lasting restorations and extremely low shrinkage
- Direct and ergonomic application/no mixing necessary
- Curing can be accelerated with polymerisation light
- X-ray check possible
- Optimised biocompatibility

## HEYTEC Cem Veneer

HEYTEC Cem Veneer is a light-cure, single component, highly radiopaque luting material for cementing porcelain, composite and ceramic veneers and for cavity lining.

HEYTEC Cem Veneer is BisGMA, Bis EMA and TEGDMA free and highly viscous. HEYTEC Cem Veneer offers easy handling and excellent color stability for highly esthetic veneer cases.

- Filler Content 80%
- Compressive strength - >362 MPa
- Flexural strength - >140 MPa
- Film thickness - 28um
- Viscosity - 590 Pas
- Radiopacity - 210%
- E-Module - >14900 MPa



Order number	1x 2g syringe
HE044	A2
HE041	BLX

# HEYTEC Semi

**HEYTEC Semi** is a dual-curing, semi-permanent cement for the cementation of crowns and bridges on implants and natural teeth. No chemical adhesion [0 MPa] is compensated by controlled expansion of the cement. This ensures optimal fastening, and removal of the restoration without any damage.

## Temporary Cement

### TECHNICAL DATA

- Compressive strength - 40 MPa
- Film thickness - 20 µm
- Processing time (23° C / 73° F) - 2:00 min.
- Setting time (self-curing) - approx. 4:00 min.
- Light curing - 40 sec per area



Order number      1x 5ml, 5x mix tips  
HE032

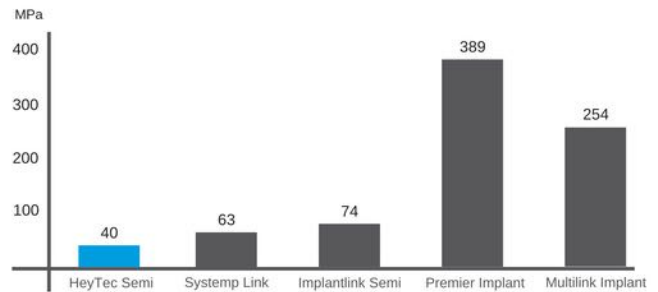
### Excellent "snap-off" for revisions

Revision or prosthetic reconstruction removal is safe and easy. **HEYTEC Semi** application does not require etching, conditioning or bonding, which eliminates the chemical connection between the abutment and crown. Cement residue can be easily removed and the construction recemented if necessary.

### Biocompatible and antibacterial

**HEYTEC Semi** is eugenol free, has a neutral taste and smell for patient comfort and added zinc oxide causes an antibacterial effect.

Compressive Strength MPa

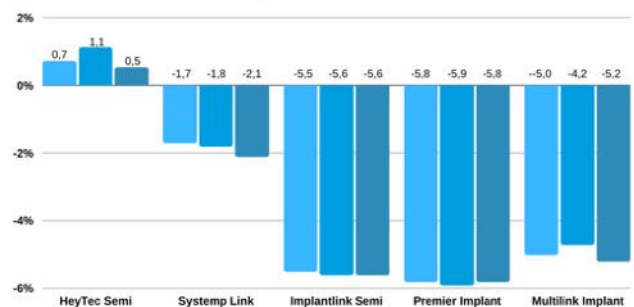


Source: Fraunhofer Institut, Dresden Germany  
\*This brands are not registered trademarks of Heydent

### Thin layer and controlled expansion

precise fit is guaranteed by a thin layer of **HEYTEC Semi** (<20). Controlled volume expansion of the cement (eliminates the shrinkage). All this gives an ideal marginal sealing.

Expansion of HeyTec Semi vs. shrinkage of other cements



Source: Manufacturer Research, Germany

### Flexible structure for the bone and implant protection

Stress-absorbing properties are much higher due to the retained flexibility of **HEYTEC Semi** (40MPa). This creates a much better environment for tissue regeneration.

# HEYTEC Cem SE

**HEYTEC Cem SE** is a selfadhesive, dualcure composite material for final cementation of crowns, bridges, inlays/onlays restorations and posts. **HEYTEC Cem SE** provides high strength adhesion to dentin, enamel, zirconium (16MP!), ceramics, composites, titanium and metal.

## Selfetching Cement

### Strong adhesion without etching, conditioning or bonding

The entire procedure of cementation requires just a few steps, with no risk of overetching and sensitivity. **HEYTEC Cem SE** is self neutralizing with an initial low ph, which increases after application to ph 5.5 after some hours. The rise of ph prevents post cementation sensitivity.



Order number 1x 5ml, 10x mix tips  
HE031

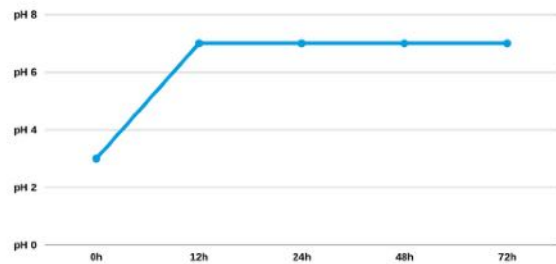
### Perfect fit reconstruction and predictable work

A thin film - 12µm - provides precise cementation while delicate expansion of the cement eliminates its shrinkage from the margins. This ensures excellent marginal integrity. The dual cure system allows pre-curing of the positioned restoration, as well as easy removal of excess in its initial flexible phase.

### Excellent color stability and natural fluorescence

Proven color stability is satisfying even for transparent ceramics, this guarantees a long-lasting aesthetic effect. An additional advantage is the significant release of fluoride, which results in strengthening the surrounding tissues.

HeyTec Cem SE  
Self neutralization after 12h

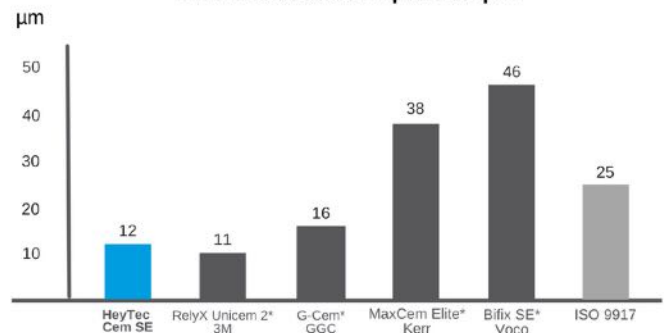


Source: Manufacturer Research, Germany

### TECHNICAL DATA

- Shear bond strength on enamel 9 MPa / dentin 12 MPa
- Compressive strength 180 MPa
- Setting time (self cure) 4:00 min.
- Light-curing (optional) 20 sec.

Film thickness comparison µm



Source: Manufacturer Research, Germany  
\*This brands are not registered trademarks of Heydent

# HEYTEC Core-N

HEYTEC Core-N is a dual-cure flowable composite material with nano particles (nano-zirconium dioxide, nano-calciumfluoride) for core-build-up and root post cementation.

## Tooth reconstruction Reliable and durable Core Build Up

### NaNo-technology

The exceptional mechanical properties of HEYTEC Core-N is caused by the innovative molecule structure. The material is highly resistant against compression and bending. These features make HEYTEC Core-N the perfect replacement of the natural dentin.

### Secure and predictability treatment

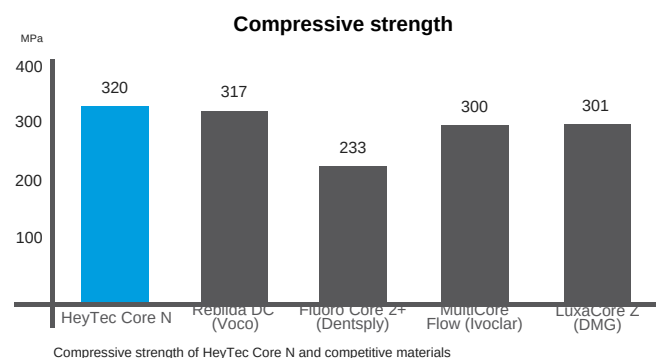
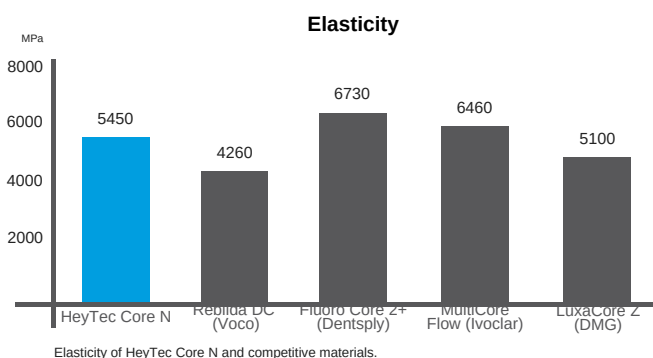
HEYTEC Core-N can be shaped exactly like dentin, which makes the work easy and predictable. Extra safety, is guaranteed by no temperature increase during material polymerization, especially when reconstruction vital teeth

### Dentin remineralization and x-ray visibility

The content of nano-particles of calcium fluoride allows dentin remineralization, and nano-zirconia particles generate excellent x-ray visibility.



HEYTEC Core-N is a multi purpose material for core build-up and for the cementation of endo posts. Together with a root post, it creates a homogeneous and durable structure for the permanent tooth reconstruction.



## TECHNICAL DATA

- Bending strength (dual-hardening mode) - 145 MPa
- Flexural strength (self-hardening mode) - 129 MPa
- Compressive strength - 320 MPa
- Elasticity (dual-hardening mode) - 7.4 GPa
- Elasticity (self-hardening mode) - 5.4 GPa

Order number 1x 5ml, 5x mix tips  
HE049

## JW NEXT Power Bleaching

**JW NEXT Power Bleaching** is a two-component chair-side bleaching gel in a double-bar cartridge with 35 % content of active ingredient (hydrogen peroxide) for quick bleaching and brightening of discolored and devitalized teeth.

**JW NEXT Power Bleaching** can be used without any light source, but gets better results with lamps and best results with a diode-laser!



Order number	1x SET*
1020JW	

\* 1x 5g Double cartridge, 1x 1,5g JW Liquid Dam, 3x Mixing Tips, 1x Liquid Dam tip



Clinical case from Dr Eugenia Anagnostaki

## Features

### JW NEXT Power Bleaching

- High content of active ingredient
- Ideal consistency
- Automix cartridge
- Neutral pH-value
- Red color

## Benefits

### JW NEXT Power Bleaching

- Quick bleaching and brightening
- Long-lasting result
- Easy application
- No running, good contrast on the tooth
- Consistent quality
- No mixing necessary

## JW Liquid Dam



**JW Liquid Dam** is a one-component material to cover the gingiva during treatment with highly active in-office bleaching gels. **JW Liquid Dam** provides optimal viscosity, good flow behavior, very low heat development and only 20 sec polymerization time. It's color is blue for a very good contrast to the gingiva.

Order number	2x 1,5g syringes
1003	



## H-NANO Seal

**H-NANO Seal** is an innovative protective lacquer, based on a patent-protected silicone polymer!

**H-NANO Seal** forms a very strong adhesion on the enamel or dentin. It is not necessary to etch before.

Thanks to the innovative formula, the material stays on the tooth surface for about 12 months.

## Desensitizer



12 months

protection up to 12 month

## Features

H-NANO Seal

no need to polimerize

no etching

### Silikonpolymer

- Ensures excellent adhesion to enamel and dentin
- Transparent - does not cause any stains
- Can be used on bleached teeth

### NANO Fluorapatit

- Fills enamel microfractures
- Closes open tubules

### Aminfluorid Olaflur

- Immediately releases large amounts of fluoride
- Accelerates the process of remineralization

## Benefits

H-NANO Seal

- caries prophylaxis for children and adults, as well as patients with braces
- treatment of teeth after a professional cleaning
- tooth protection after teeth whitening
- reduction of hypersensitivity caused by open tubules
- remineralization of hard tooth tissues and closing of microfractures in the enamel
- preliminary sealing of fillings and restorations

Order number

1x set\*

HE008

\* 1x 5ml bottle, 20x disposable brushed, applicaton trays

## HEYTEC Soft

Kneadable A-Silicone for the double mixing technique. **HEYTEC Soft** has a particularly soft mixing consistency. The impression is taken without excessive compression pressure and can be made in both prefabricated and individual impression trays.

- Consistency: putty
- Color yellow
- Linear shrinkage: <0.1%
- Mixing time: 45 sec.
- Processing time: 2:20 minutes
- Curing time (in the mouth): <3:00 minutes
- Final hardness: approx. 65 shore A
- Standard: ISO 4823, type 0



### Order number

HD060 2x 300 ml Jar A+B, 2 x Spoon

## HEYTEC Soft-H

Kneadable A-silicone for the double mixing or double impression technique. Due to the smooth initial consistency and final hardness of 67 shore A, **HEYTEC Soft-H** (superhydrophil) is universally applicable. The extremely strong hydrophilicity develops a pronounced affinity to all wetted areas and guarantees the highest possible surface quality of the impression.

- Consistency: soft putty
- Color: gray - green
- Linear shrinkage: <0.1%
- Mixing time: 45 sec.
- Processing time: 2:20 minutes
- Curing time (in the mouth): <3:00 minutes
- Final hardness: approx. 67 shore A
- Standard: ISO 4823, type 0



### Order number

HD068 2x 300 ml Jar A+B, 2 x Spoon

## HEYTEC Mono-X

Monophase Precision A-Silicone with excellent stability and exceptional image sharpness.

Areas of application: Inlay-Onlay crowns and bridges, fixation impressions, telescopic and attachment work up to complex implant impressions.

- Consistency: heavy
- Color: aubergine
- Linear shrinkage: <0.1%
- Mixing time: not applicable
- Processing time: 2:00min
- Curing time (in mouth): <3:00 min
- Finalhardness: approx. 70 shore A
- Standard: ISO 4823, Type 1

### Order number

HD064 1x 380 ml 5:1 Cartridge, 10 Mix-Tips



## HEYTEC Heavy-X

Precision impression material for machine, dynamic mixing. **HEYTEC Heavy-X** is suitable for all precision impression techniques in which outstanding hydrophilic properties, excellent dimensional stability, high tensile strength and high resilience are important.

Areas of application: Pre-impression material for all two-phase impression techniques.

- Consistency: heavy
- Color yellow
- Linear shrinkage: <0.1%
- Mixing time: not applicable
- Processing time: 1:30 min
- Curing time (in mouth): <2:30 min
- Final hardness: approx. 65 shore A
- Standard: ISO 4823, Type 1

### Order number

HD065 1x 380 ml 5:1 Cartridge, 10 Mix-Tips



## HEYTEC Light-H

Addition-crosslinking, extremely fine-flowing correction impression material with superhydrophilic properties for all impression techniques. With the avoidance of air inclusions, it flows to all critical points and also reproduces the finest contours. Residual liquids are washed out by the compression pressure and the superhydrophilic properties. The thixotropic property prevents inadvertent flow of the already applied material from the preparation.

- Consistency: putty
- Color yellow
- Linear shrinkage: <0.1%
- Mixing time: 45 sec.
- Processing time: 2:20 min
- Curing time (in mouth): <3:00 min
- Final hardness: approx. 65 shore A
- Standard: ISO 4823, type 0



### Order number

HD061 2x 50 ml Cartridge, 12 Mix-Tips

## HEYTEC Bite

Addition-crosslinking, superhard, fast-setting silicone material for bite registration. With a final hardness of approx. 90 shore A, the material is not only suitable for the registration of full or partial toothed jaws, but also for bite registration in the total prosthesis. The post-processing with knife, stone or milling machine is possible without any problem.

- Consistency: heavy
- Color: magenta
- Linear shrinkage: <0.1%
- Mixing time: not applicable
- Processing time: 15 seconds
- Curing time (in mouth): 45 seconds
- Final hardness: approx. 90 shore A
- Standard: ISO4823, type 0



### Order number

HD080 2x 50 ml Cartridge, 12 Mix-Tips



## HEYTEC Adhesive

Liquid spoon adhesive for all commercially available A-silicones.

Order number 1x 10ml

HD062




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# heydent

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