



Minimized  
expansion for  
the master  
laboratory



Innovations for  
the conventional  
dental technology

# Expertise in plaster

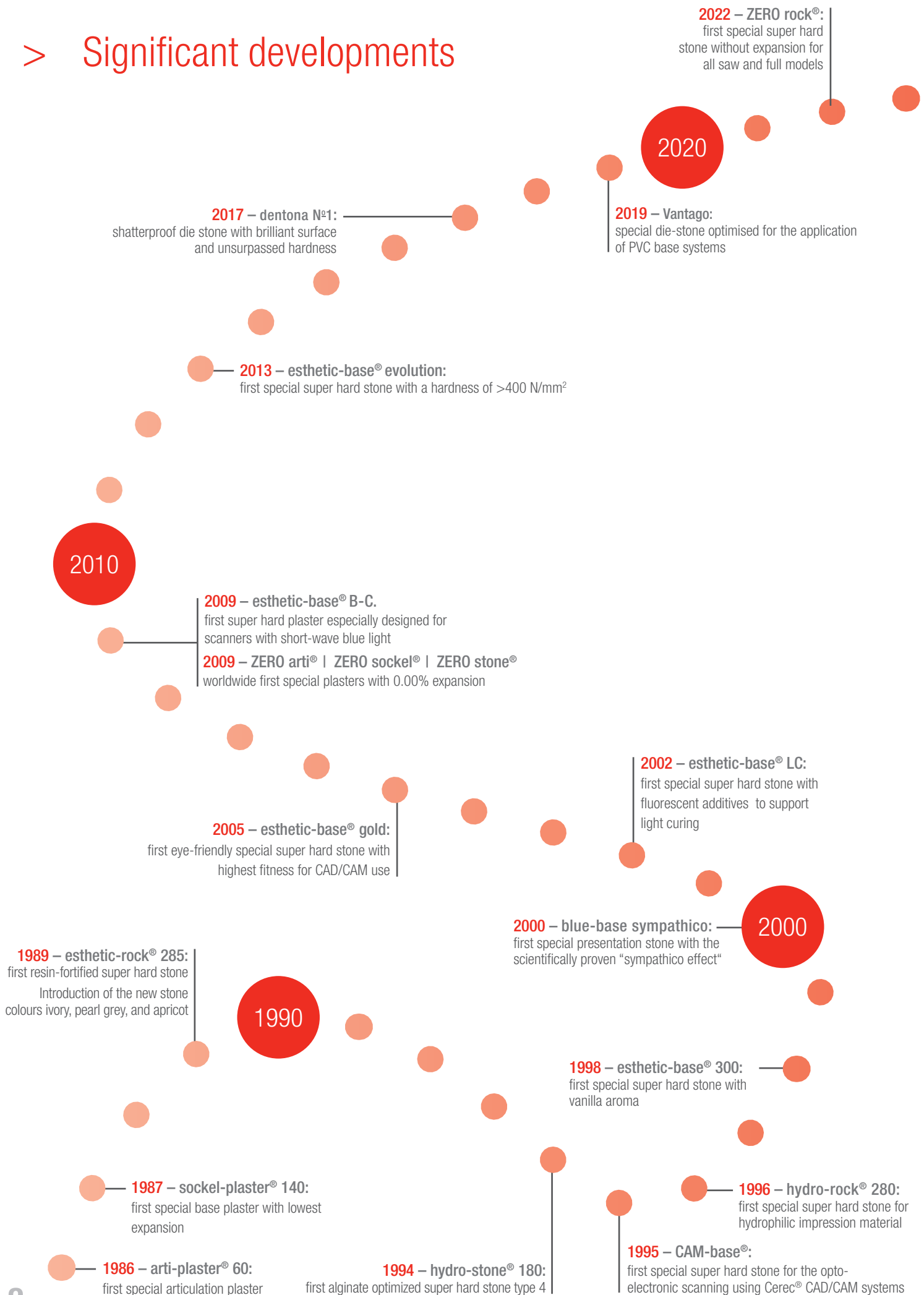
For more than four decades now, dentona has optimized and continued to perfect the production of dental models with numerous product innovations. When dentona research findings are implemented as highend specialities, the focus is always on the benefit to the customer. This is possible due to close, personal contact with the technicians and due to an efficient network of partners that not only bring in their own ideas

and needs from their daily practice, but also coordinate the development phases of new products. The result is a number of specialities, some of which have even become legendary, such as esthetic-rock<sup>®</sup> 285, CAM-base<sup>®</sup>, esthetic-base<sup>®</sup> gold or Zero arti<sup>®</sup>. Convince yourself of dentona's unbeatable plaster expertise.

- **Die-stones**
- **Super hard stones**
- **Base plasters**
- **Articulation plasters**
- **Hard stones**



# > Significant developments



## > Expertise in plaster

### ZERO arti® | ZERO rock® | ZERO stone®

With its own research and development department, dentona is able to demonstrate its expertise on a regular basis in the field of dental plasters with significant innovations. dentona marketed

the world's first special stones with 0.00% expansion. So far no other manufacturer has been able to master this technology which previously was not considered feasible. The absent expan-

sion of these materials thereby gives you the fantastic benefits of 100% reproducible precision.



*” For more than 25 years I have been responsible for the quality control of dentona plasters. I would never have imagined that we are constantly able to improve the products in terms of batch consistency, processing properties and technical values.*

MDT Martin Kuske, Head of Application Engineering dentona AG



dentona combines the entire chain of value creation under one roof: from research to the composition of selected raw materials, all the way to the fabrication of special stones and delivery to the end user. Thus dentona can guarantee you the highest qua-

lity of products, as it has for more than 40 years. Standardized processes, highly qualified employees as well as numerous material tests (from the digital color measurement of the stone powder through the optimum processing properties, up to the ex-

pansion measurement which is far beyond the DIN requirement) lead to the compliance with the promised product characteristics documented by the test certificate for each production badge.



# > Relaxed for the next challenge!



ZERORock® is a special super hard stone without expansion for all saw and full models. Optimized for large-span implants and bridge works.



Perfect transfer of the mouth situation to the master model as well as to all saw models with 0,00 % expansion.



Easy exposure of the preparation line with perfect edge stability.

Fotos: Zahntechnik-Jochen Graf, Monschau

Mixing ratio	21 ml : 100 g
Mixing time (mechanical)	60 s
Processing time	appr. 8 minutes
Setting time	appr. 15 minutes
Hardness 24 h	> 280 N/mm <sup>2</sup>
Hardness 30/60 min.	appr. 180/250 N/mm <sup>2</sup>
Expansion (according to DIN)	0.00 %

## Your benefits

- The thixotropic consistency makes pouring easier
- The ideal final hardness for grinding
- 0.00 % expansion assures you the most precise result



Packaging unit	22 kg	6x 2,5 kg	2x 2,5 kg
ZERORock® cashmere	#12065	#12062	#12061
ZERORock® caramel	#12055	#12052	#12051

# > The benefit for your model production

## Vantago

**Special die-stone perfectly adapted to the application of PVC base systems:**

### Easier model production

Optimised flow and processing properties simplify the production of arcades on plastic base systems.

### Safe model processing

Excellent edge stability ensures the exposure of the margin line.

### Multiple areas of application

Thanks to the fast layer-building capacity, the Vantago is equally suited to all model systems.

### Increased precision

Ideal expansion process after 24 hours for most accurate results.

### Stress-free work

Linear transition from soft to hard plaster consistency for the final processing of several models.

### Perfect results

The exceptionally attractive model surface showcases your work.



„Vantago is the desired result for many participants in the dentona model production courses in recent years!“

MDT Martin Kuske, training manager at dentona AG



### Your benefits

- excellent edge stability
- optimum flowability and processing time for the production of multiple models in series
- suitable for all model systems thanks to the special layer-building capacity

Packaging unit	25 kg	6x 2,5 kg	2x 2,5 kg
Vantago, caramel	#12765	#12764	#12762



# > This is what winners look like

## dentona N°1

The special die stone dentona No.1 is a thixotropic super hard stone, which offers the basis for perfect finishing by its high level of stability. dentona No.1 has extremely low expansion values

at a previously unattained hardness of more than 400 N/mm<sup>2</sup>. This combination of outstanding physical properties allows a shatterproof exposure of the margin line and general working conditions with

the highest precision. The exceptional surface gives the model an unrivaled brilliance. dentona No.1 is available in three beautiful colours cashmere, caramel and dolphin.

### Your benefits

- Maximum resistance against abrasion
- Brilliant surfaces
- Shatterproof exposure of the margin line
- High stability level with good flowability



cashmere



caramel



dolphin

Packaging unit	25 kg	6x 2,5 kg	2x 2,5 kg
dentona N°1, cashmere	#12815	#12814	#12812
dentona N°1, caramel	#12825	#12824	#12822
dentona N°1, dolphin	#12835	#12834	#12832



## > The series for aesthetes

### esthetic-base® evolution



Unique for dental arcades! esthetic-base® evolution is a special super hard die-stone in accordance with DIN EN ISO 6873:2013, type 4 with outstanding physical features, such as extremely high hardness of > 400 N/mm<sup>2</sup>, the highest edge stability and the lowest expansion values. The high-quality surface finish gives the model special brilliance. The product is designed to be highly thixotropic and very easy to use.

#### Your benefits

- Maximum hardness of > 400 N / mm<sup>2</sup> with an outstanding edge stability
- Minimal expansion for maximum precision
- Best resistance to abrasion

#### Packaging unit

esthetic-base® evolution ivory

esthetic-base® evolution golden brown

esthetic-base® evolution pearl grey



25 kg

#11705

#11725

#11735

2x 2,5 kg

#11701

#11721

#11731

### esthetic-base® gold



esthetic-base® gold reflects the whole know-how of dentona in the production of special die-stones and special plasters for the CAD / CAM technology. esthetic-base® gold is a special die-stone according to DIN EN ISO 6873: 2013, type 4 based on a special formulation, is highly thixotropic and quickly removable from mould. The special composition leads to a beautiful look as well as very good results in the surface digitalization.

#### Your benefits

- The high surface density leads to a brilliant model and supports your valuable work
- Surface digitalization without scan spray or powder
- Highest precision thanks to lowest expansion values

#### Packaging unit

esthetic-base® gold



25 kg

#11035

2x 2,5 kg

#11031

## esthetic-base® gold quick

Packaging unit		25 kg	2x 2,5 kg
esthetic-base® gold quick		#11135	#11131

### Your benefits

- Removal from mould after 10 minutes
- for quick works

## esthetic-base® B.C.



esthetic-base® B.C. is a special die-stone in accordance with DIN EN ISO 6873:2013, type 4. esthetic-base® B.C. is based on a special formulation, is highly thixotropic and can be quickly removed from the mould. Optimised for cameras and scanners with short-wave blue light.

### Your benefits

- Brilliant color and high surface density
- No powdering when scanning with short-wave blue light
- The color supports the natural resolution of the veneers on the model

Packaging unit		25 kg	2x 2,5 kg
esthetic-base® B.C. light ivory		#11325	#11321







## esthetic-base® 300



esthetic-base® 300 was developed as the modern successor to the legendary esthetic-rock® 285 of 1989. esthetic-base® 300 is a special die-stone conforming to DIN EN ISO 6873:2013, type 4. esthetic-base® 300 is resin-fortified, highly thixotropic, can be quickly removed from moulds – for all saw, counter bite and diagnostic models.

### Your benefits

- stays on the spoon and flows on the vibrator thanks to high thixotropy and stability
- shatterproof drilling, sawing and grinding for ultra smooth models and sharp edges
- dimensionally stable models and customized final results by lowest expansion values

Packaging unit		25 kg	6x 2,5 kg	2x2,5kg
esthetic-base® 300 apricot		#10125	#10121	#10122
esthetic-base® 300 ivory		#10115	#10111	#10112
esthetic-base® 300 yellow		#10935	#10931	#10932
esthetic-base® 300 golden brown		#10135	#10131	#10132
esthetic-base® 300 pearl grey		#10145	#10141	#10142
esthetic-base® 300 vanilla		#10635	#10631	#10632



## > In a class of its own



### uni-base® 300

The unique successor to dento-rock 280, proven since 1981. uni-base® 300 is a special die stone conforming to DIN EN ISO 6873:2013, type 4, thixotropic, can be early removed from moulds – suitable for all saw, counter bite and diagnostic models.

#### Packaging unit

	25 kg	2x 2,5kg
uni-base® 300 apricot	#10205	#10202
uni-base® 300 ivory	#10195	#10192
uni-base® 300 yellow	#10945	#10942
uni-base® 300 golden brown	#10215	#10212
uni-base® 300 mint green	#11015	#11011
uni-base® 300 pearl grey	#10225	#10222
uni-base® 300 white	#11025	#11021

#### Your benefits

- very thixotropic: stays on the spoon and flows on the vibrator
- Removal from mould after 30 minutes thanks to fast hardening
- Security against abrasion and high precision due to very high final hardness



### hydro-base® 300

hydro-base® 300 is a special die-stone conforming to DIN EN ISO 6873:2013, type 4, low thixotropic, fast setting, early removable from mould – especially designed for all aqueous and hydrophilized impressions – for saw, counter bite and diagnostic models.

#### Packaging unit

	25 kg	2x 2,5 kg
hydro-base 300® ivory	#10975	#10971
hydro-base 300® golden brown	#10985	#10981
hydro-base 300® mais	#10995	
hydro-base 300® pearl grey	#11005	

#### Your benefits

- ultra smooth models adaptable for all hydrophilic and aqueous impressions
- time-saving due to removal from mould after 20 minutes
- security against abrasion and maximum precision thanks to highest final hardness



### rapid-stone

rapid-stone is a fast super hard stone for the creative dental technician for repair, counter bite and splint works! The special characteristic is the removal from mould after only 10 minutes. It is especially suitable for alginate impressions due to the reduced setting time.

#### Packaging unit

	25 kg	2x 2,5 kg
rapid-stone golden brown	#11805	#11801

#### Your benefits







- time-saving by fast removal from mould after 10 minutes
- economic and versatile
- for quick repairs, counter bites and splint models



## hydro-stone® 200

hydro-stone® 200 was the world's first special super hard stone for taking alginate counter-bite impressions. hydro-stone® 200 is a special super hard stone conforming to DIN EN ISO 6873:2013, type 4, low thixotropic, fast setting – ideal for alginate and hydrophilized silicone impression material – for counter bites, plastic dentures, model casting and orthodontics.

### Packaging unit

		25 kg	2x 2,5 kg
hydro-stone® 200 apricot		#10590	#10594
hydro-stone® 200 golden brown		#10750	
hydro-stone® 200 mint green		#10265	#10262
hydro-stone® 200 peach		#10275	#10272
hydro-stone® 200 pearl grey		#10600	#10602
hydro-stone® 200 white		#10285	#10282

### Your benefits

- removal from mould after 20 minutes thanks to fast hardening
- very stable and fast processing, ideal for all full models
- ultra smooth models due to optimization for alginate and hydrophilic impression materials



## hand-stone® 150

In accordance with DIN EN ISO 6873:2013, type 4, this special super hard stone is the perfect solution for pouring out models in the dental practice. This material is optimised for manual mixing without vacuum mixer unit, in order to accommodate practical processing within the dental practice. The very easy handling doesn't imply any loss of quality as to its physical properties and the optic of the model. hand-stone 150 is low thixotropic, sets quickly – for counter bites, plastic dentures and diagnostic models.

### Packaging unit

		25 kg	2x 2,5 kg
hand-stone® 150 ivory		#11395	#11391

### Your benefits

- very easy processing by manual mixing
- very stable and fast processing, ideal for all full models
- removal from mould after 20 minutes thanks to fast hardening

## > Fast, safe, precise

With ZERO arti® you attain 100% precision when mounting models in the articulator. ZERO arti® has excellent adhesive strength and sets quickly.

### ZERO arti®

ZERO arti® is the first special articulation plaster (mounting plaster) according to DIN EN ISO 6873:2013, type 2, class 1 with 0,00 % expansion.

#### Your benefits

- no bite raising with articulation plaster
- very good adhesion to models
- time-saving thanks to the articulation in one step

### ZERO arti® quick

This version of world's only special articulation plaster with 0.00 % expansion offers a particularly short setting time of 3-4 minutes.

#### Your benefits

- time-saving due to very short setting time



Packaging unit	22 kg	2x 2,5 kg
ZERO arti® white	#12105	#12101
ZERO arti® quick white	#12155	#12151

### arti-base® 60

arti-base® 60 is a fast-setting special articulation plaster (mounting plaster) with increased adhesive strength for the precise mounting of models in an articulator.

#### Your benefits

- secure fit of models thanks to higher adhesion
- short setting time suits perfectly for mounting several models in one operation
- accurate modeling due to lowest expansion values

### arti-base® 60 quick

arti-base® 60 quick is the particularly fast-setting version of the proven arti-base® 60. The other product properties – in particular the increased adhesive strength – are identical to arti-base® 60.

#### Your benefits

- quick continuation of work thanks to very short setting time of 3 minutes
- easy model stacking due to stable consistency



Packaging unit	25 kg	2x 2,5 kg
arti-base® 60 white	#10505	#10502
arti-base® 60 lemon	#10495	#10492
arti-base® 60 quick white	#10810	#10811

## > Our white giants

### orthodontic-base



orthodontic-base is a special hard stone conforming to DIN EN ISO 6873:2013, type 3, slowly setting - for orthodontics, extra white, also suitable for plastic dentures, repair and diagnostic models.

#### Your benefits

- ideal for orthodontics due to a very brilliant white
- very stable and long processing time

Packaging unit  
orthodontic-base extra white



22 kg  
#11295

### dento-dur® KFO 3D



dento-dur® KFO 3D is a special hard stone conforming to DIN EN ISO 6873:2013, type 3, fast setting - for orthodontics, extra white, also for plastic dentures, repair and diagnostic models.

#### Your benefits

- ideal for orthodontic models thanks to high stability and high whiteness

Packaging unit  
dento-dur® KFO 3D extra white



22 kg  
#108500



# > > Precision miracles

## socket-plaster® GT exact



socket-plaster® GT exact is the first fluid base plaster with an expansion below 0,02% according to DIN EN ISO 6873:2013, type 4 – for very precise Pindex models with the base casting technology.

### Your benefits

- optimal proximal contacts and best fitting
- easy processing thanks to the low viscosity
- particularly stylish colors

#### Packaging unit

socket-plaster® GT exact orange cream  
 socket-plaster® GT exact photo grey  
 socket-plaster® GT exact white



#### 22 kg

#12315  
 #12325  
 #12305

#### 2x 2,5 kg

#12311  
 #12321  
 #12301

## socket-plaster® GT 160

socket-plaster® GT 160 is a special fluid base plaster (DIN EN ISO 6873:2013, type 4) for tension-free model bases in the base casting technology, for split casts and extra smooth counterparts in plastic dentures.

### Your benefits

- correct proximal contacts and better implementation by very low expansion
- particularly homogeneous colors
- bubble-free base due to low viscosity

#### Packaging unit

socket-plaster® GT 160 bordeauxrot  
 socket-plaster® GT 160 citrus yellow  
 socket-plaster® GT 160 gingiva red  
 socket-plaster® GT 160 royal blue  
 socket-plaster® GT 160 salmon red  
 socket-plaster® GT 160 petrol green  
 socket-plaster® GT 160 white



#### 22 kg

#11055  
 #10335  
 #10305  
 #10345  
 #11225  
 #10325  
 #10315

#### 2x 2,5 kg




#11052  
 #10332  
 #10302  
 #10342  
 #10322  
 #10312



## > Not just simple hard stones



### dento-dur® 110

dento-dur® 110 is a special hard stone conforming to DIN EN ISO 6873:2013, type 3, fast setting for orthodontics, plastic dentures, repair and diagnostic models.

Packaging unit		25 kg
dento-dur® 110 blue		#10405
dento-dur® 110 egg yolk		#10415
dento-dur® 110 white		#10420




### dento-dur® 110 quick

dento-dur® 110 quick is a special hard stone conforming to DIN EN ISO 6873:2013, type 3, very fast setting and can be removed from mould after only 10 minutes – for repairs, plaster keys and plastic dentures.

Packaging unit		25 kg
dento-dur® 110 quick blue		#10880
dento-dur® 110 quick egg yolk		#11145

### profilare® 100

profilare® 100 is a special hard stone conforming to DIN EN ISO 6873:2013, type 3, normal setting, suitable for plastic dentures, repair and diagnostic models.

Packaging unit		25 kg
profilare® 100 blue		#10455
profilare® 100 yellow		#10435
profilare® 100 green		#10445

### profilare® 85

profilare® 85 is a hard stone conforming to DIN EN ISO 6873:2013, type 3, normal setting, suitable for plastic dentures, repair and diagnostic models.

Packaging unit		25 kg
profilare® 85 yellow		#11175
profilare® 85 light blue		#11165

#### Your benefits

- bubble-free models, even by manual mixing
- easy model stacking due to high stability
- ideal for repairs thanks to short setting time and fast hardening



#### Your benefits

- removal from mould already after 10 minutes

#### Your benefits

- is stable and easy to process



#### Your benefits

- very economical and easy to process

## > Technical data on dentona® plasters

Product	W/P (ml) H2O per 100g powder ratio	Mixing time (s) mech. (manual)	Proces- sing time (min)	Setting time (min)	Removal from mould after (min)	Hardness (Rockwell)			Compressive strength (MPa)		Setting expansion 2h (%)
						30 min (N/mm <sup>2</sup> )	60 min (N/mm <sup>2</sup> )	24 h (N/mm <sup>2</sup> )	1 h (MPa)	24 h (MPa)	
<b>Super hard stones type 4 – die stones</b>											
ZERO rock®	21	60	~ 8	~ 15	45	~ 180	~ 250	> 280	~ 70	~ 100	0,00
Vantago	20	60	~ 10-11	~ 15-16	35	~ 250	~ 310	~ 350	~ 80	~ 115	< 0,07
dentona N° 1	18	60	~ 7-9	~ 13-15	35	~ 260	~ 330	> 400	~ 90	~ 125	< 0,08
esthetic-base® evolution	20	60	~ 9-10	~ 13-15	40	~ 260	~ 320	> 400	~ 85	> 120	< 0,09
esthetic-base® gold	20	60	~ 9-10	~ 13-14	30	~ 210	~ 280	> 300	~ 75	> 110	< 0,08
esthetic-base® gold quick	20	30	~ 2-3	~ 5-6	10	~ 260	~ 300	> 300	~ 75	> 110	< 0,08
esthetic-base® B.C.	20	60	~ 7-8	~ 11-12	30	~ 240	~ 280	> 300	~ 75	> 110	< 0,08
esthetic-base® 300	20	60	~ 8-9	~ 12-13	30	~ 240	~ 280	> 300	~ 75	> 110	< 0,08
uni-base® 300	20	30	~ 7-8	~ 11-12	30	~ 240	~ 280	> 300	~ 70	> 100	< 0,08
hydro-base® 300	20	30	~ 4-5	~ 7-8	20	~ 270	~ 300	> 300	~ 75	> 100	< 0,08

### Super hard stones type 4 – for hydrophilic impressions - counter bites and model casting

ZERO stone®	23	30	~ 7-8	~ 15-16	60	~ 60	~ 110	> 200	~ 40	> 80	0,00
hydro-stone® 200	23	30	~ 4-5	~ 9-10	30	~ 170	~ 180	> 180	~ 50	> 60	< 0,10
rapid stone	24-25	30	~ 3-4	~ 6-7	10	~ 160	~ 180	> 200	~ 60	> 90	< 0,10

### Super hard stones type 4 – special base plasters

sockel-plaster® GT 160	24	60	~ 8-9	~ 13-14	30	~ 130	~ 150	> 160	~ 60	> 70	< 0,06
sockel-plaster® GT exact	24	60	~ 8-10	~ 15-16	45	~ 100	~ 120	> 150	~ 40	> 50	< 0,02

Product	W/P (ml) H2O per 100g powder ratio	Mixing time (s) mech. (manual)	Process- ing time (min)	Setting time (min)	Removal from mould after (min)	Hardness (Rockwell)			Compressive strength (MPa)		Setting expansion 2h (%)
						30 min (N/mm <sup>2</sup> )	60 min (N/mm <sup>2</sup> )	24 h (N/mm <sup>2</sup> )	1 h (MPa)	24 h (MPa)	

### Articulation plasters (mounting plasters)

ZERO arti®	30	20 (30)	~ 2-3	~ 5-6		~ 50	> 50	> 60	~ 25	> 25	0,00
ZERO arti® quick	30	(30)	~ 1,5-2	~ 3-4		~ 50	> 50	> 60	~ 25	> 25	0,00
arti-base® 60	30	(30)	~ 2-3	~ 4-5		~ 50	> 50	> 60	~ 25	> 25	< 0,04
arti-base® 60 quick	30	(30)	~ 1,5-2	~ 3		~ 50	> 50	> 60	~ 25	> 25	< 0,04

### Special CAD/CAM stones

esthetic-base® gold	20	60	~ 9-10	~ 13-14	30	~ 210	~ 280	> 300	~ 75	> 110	< 0,08
esthetic-base® gold quick	20	30	~ 2-3	~ 5-6	10	~ 260	~ 300	> 300	~ 75	> 110	< 0,08
esthetic-base® B.C.	20	60	~ 7-8	~ 11-12	30	~ 240	~ 280	> 300	~ 75	> 110	< 0,08

### Special stone for manual mixing

hand-stone® 150	26-27	(20-30)	~ 3-4	~ 6-7	20	~ 140	~ 150	> 150	~ 50	> 60	< 0,15
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### Hard stones type 3

dento-dur® 110	30	(30)	~ 5-6	~ 8-9	20	~ 80	~ 100	> 110	~ 40	> 40	< 0,15
dento-dur® 110 quick	30	(30)	~ 2-3	~ 5-6	10	~ 90	~ 110	> 110	~ 40	> 40	< 0,15
profilare® 100	30	(30)	~ 6-7	~ 9-10	20	~ 80	~ 100	> 100	~ 35	> 35	< 0,20
profilare® 85	35	(30)	~ 6-7	~ 9-10	20	~ 70	~ 85	> 85	~ 30	> 30	< 0,25

### Hard stones type 3 – for orthodontics

dento-dur® KFO 3D	30	(30)	~ 3-4	~ 5-6	15	~ 80	~ 100	> 110	~ 40	> 40	< 0,10
orthodontic-base	28-30	(30)	~ 7-8	~ 13-14	30	~ 130	~ 140	> 140	~ 50	> 60	< 0,10

