

User instructions



Available in the following colours:

margin 1A2, 3A4, 1B2, 3B4, 1C2, 3C4 & Booster
margin correction Bright, Medium & Dark

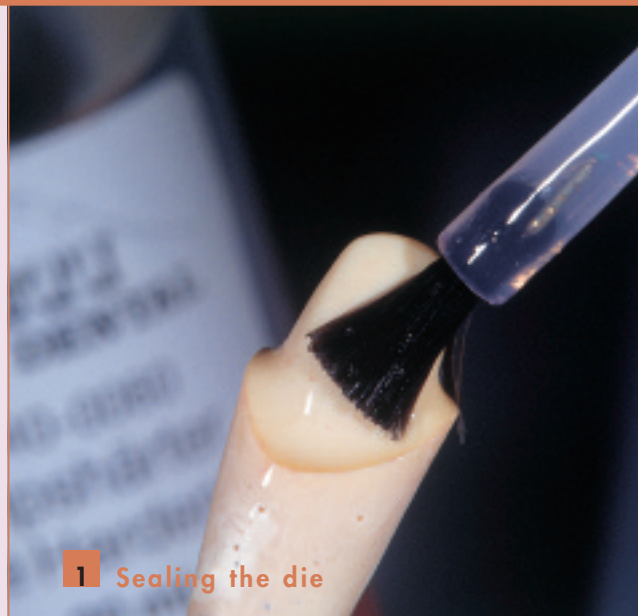
Shoulder preparation instructions.

These instructions apply to Antagon Interaction ceramic shoulder preparations. For regular Antagon Interaction workflow, we refer to the Antagon Interaction user instructions.

Indication: As Antagon Interaction *margin* was developed for firing ceramic margins in combination with sub-structures, a shoulder or chamfer preparation is required.

Contraindication: All other types of preparation. Antagon Interaction *margin* may only be used on alloys with a thermal expansion coefficient between 13,8 and 14,9 $\mu\text{m}/\text{m}\cdot\text{K}$ (25-500°C).

For dental use only, Rx only,
Type 1 dental ceramic



1 Sealing the die

1 Sealing the die:

- Apply a die hardener agent onto the die and allow to dry well.




2 Separating the die

2 Separating the die:

- Apply a ceramic separation agent to the die and dry with compressed air.

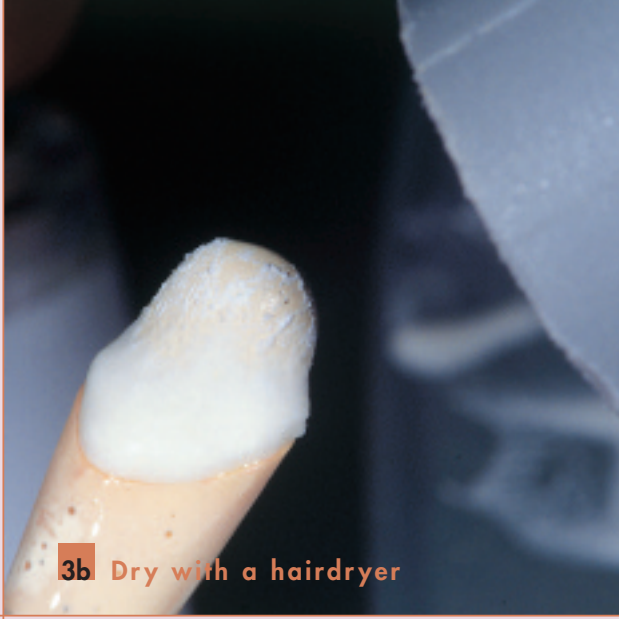
Colour	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
<i>margin</i>	1A2		3A4	50% 3A4 & 50% Booster	Booster	1B2		3B4	50% 3B4 & 50% Booster	1C2		3C4	50% 3C4 & 50% Booster	1A2	3A4	3C4
<i>margin correction</i>	Bright, Medium & Dark															



3a Applying margin

3 Applying margin for the first shoulder preparation firing:

- Use *margin liquid* to mix the *margin* in question (cf. the colour schedule on the previous page) into a cream-like consistency.
- Apply the *margin* material in the usual manner. Before proceeding, condense well and dry, if required, the material with a hairdryer.



3b Dry with a hairdryer



4 Removing the object

4 Removing the object:

- Remove the object from the die.
- Fire the ceramic in accordance with the firing chart.

4 Firing chart for the first shoulder preparation firing:

Drying	Starting temp.	Vacuum starting temp.	Rate of heat increase
8–10 min.	500°C	500°C	55–80°C/min.
Final temp.	Retention time	Surface appearance	
915°C	3 min.#	Matte finish	

2 min. with vacuum and 1 min. without vacuum



5 Shoulder after firing

5 Applying margin for the second shoulder preparation firing:

- Use *margin liquid* to mix the margin into a cream-like consistency.
- Apply the *margin* material in the usual manner. Before proceeding, condense well and dry, if required, the material with a hairdryer.
- Remove the object from the die.
- Fire the ceramic in accordance with the firing chart.

5 Firing chart for the second shoulder preparation firing:

Drying	Starting temp.	Vacuum starting temp.	Rate of heat increase
8–10 min.	500°C	500°C	55–80°C/min.
Final temp.	Retention time	Surface appearance	
915°C	2 min.#	Matte finish	

1 min. with vacuum and 1 min. without vacuum

6 Applying margin correction

6 Processing:

Correcting the ceramic shoulder preparation using margin correction:

- Use *margin liquid* to mix *margin correction* into a cream-like consistency.
- Apply *margin correction* to the location to be corrected and condense well.
Before proceeding, dry with a hairdryer.
- Remove the object from the die.
- Fire the ceramic in accordance with the firing chart.
- After the firing process, the correction layer should be polished mechanically, using silicone polishing instruments and diamond paste.

Pictures: ZTM Jan Schünemann (Bielefeld, Germany)

6 Firing chart for margin corrections Bright, Medium, Dark:

Drying	Starting temp.	Vacuum starting temp.	Rate of heat increase
6 min.	500°C	500°C	55–80°C/min.
Final temp.	Retention time	Surface appearance	
850°C	2 min. with vacuum	Silky gloss	

After the firing process, the correction layer should be polished mechanically.

Antagon Interaction is highly suitable for use with the following Elephant alloys:

(For more detailed information, please ask for our alloy table.)

Alloy	TCE (25-500°C) µm/m.K	Cooling down with Antagon Interaction	Gold Weight -%	Platinum Weight -%	Palladium Weight -%	Silver Weight -%	
Orion UX	13,8	Quick	(0 min.)	77,0	9,6	9,2	1,5
Orion WX	13,8	Quick	(0 min.)	52,0	-	38,0	<1,0
Orion Vesta	13,8	Quick	(0 min.)	2,0	-	78,9	-
Bermudent H	14,0	Quick	(0 min.)	78,0	19,3	-	-
Orion UX Plus	14,1	Normal	(2 min.)*	77,1	7,7	9,5	2,0
Orion UWX	14,1	Normal	(2 min.)*	75,0	-	18,5	2,5
Orion GX	14,1	Normal	(2 min.)*	84,0	8,0	5,0	0,9
Orion Isis Plus	14,2	Normal	(2 min.)*	15,0	0,2	52,0	22,5
Biogold Plus	14,3	Normal	(2 min.)#	86,5	10,5	-	-
Bermudent Y	14,3	Normal	(2 min.)#	86,0	11,0	-	-
Biogold AN	14,3	Normal	(2 min.)#	86,0	11,0	-	-
Biogold Interaction	14,3	Normal	(2 min.)#	86,0	11,0	-	-
Biogold Pure	15,0	Normal	(4 min.) ¹	99,8	-	-	-
Orion E	14,4	Slow	(5 min.)	52,0	-	25,6	17,0
Orion Argos	14,7	Slow	(7 min.)	0,1	-	53,8	36,3

* Or, if this is impossible, quickly

Or, if this is impossible, slowly

¹ Despite the high TCE value, cool down normally because of its special composition.

Elephant



dental health products

We support your success.

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