

Instruction for use

AMBARINO® High-Class Blanc AMBARINO® High-Class C-Block

AMBARINO® High-Class is a radiopaque, ultra-hard composite material with a ceramic-based optimised, high-density filling technology. AMBARINO® High-Class is available as Blanc and C-Block in different colours for use in CAD/CAM-technology, and can be used for the production of inlays / onlays, veneers, partial crowns, as well as crowns and bridges (max. one pontic).

Delivery size of the Blanc:

Height:	15 mm	± 0,3 mm
	18 mm	± 0,3 mm
	20 mm	± 0,3 mm
Diameter:	98.5 mm	± 0,3 mm

Delivery size of the C-Block:

Height:	15.5 mm	± 0,3 mm
Length:	38.8 mm	± 0,3 mm
Width:	18.9 mm	± 0,3 mm

Delivery size of the C-Block AHC14:

Height :	18 mm	±0,3 mm
Length:	14,7 mm	± 0,3 mm
Width:	14,7 mm	± 0,3 mm

Composition:

The main component of the composite is based on highly cross-linked polymer blends (urethane dimethacrylate and butanedioldimethacrylate) with ceramic-like inorganic silicate glass filling material with an average particle size of 0.80 µm and a variation range of 0.20 µm to 3.0 µm embedded to 71.56 % by weight (guideline). Stabilisers, light stabilisers and pigments are also included.

Indications:

Production of inlays, onlays, veneers, crowns and bridges (max. one pontic) and partial crowns in CAD/CAM technology.

Contraindications:

The application of AMBARINO® High-Class Blancs / C-Blocks is contraindicated, when:

- there is a known allergy to components of AMBARINO® High-Class
- the required application technique is not possible
- the required machine template for the milling of the Blanc / C-Blocks could not be adhered to

Type of application:

The AMBARINO® High-Class Blanc / C-Block is fixed in previously cleaned clamp in accordance with the instructions of the machine manufacturer. In doing so, attention must be paid to the correct positioning. The milling / grinding procedure and the associated machine templates can be requested at the respective machine manufacturer.

Make sure during any work that the average sharpness of the cutter used is adequate for the planned milling work.

For crowns and bridges, the following values must not be undercut:

Wall thickness cervical:	at least 0,6 mm
Wall thickness occlusal:	at least 1,2 mm
Connecting bar profiles in the anterior teeth area:	10 mm ²
Connecting bar profiles in the posterior teeth area:	16 mm ²

To increase the stability of the construction, the height of the connector must be selected as large as clinically feasible.

Observe the general statics.

The milled / ground pieces have to be removed carefully without damaging. Use a low number of revolutions and a minimum of pressure to avoid thermal damage. Ensure sufficient cooling.

The surface of the milled / ground pieces must be further processed and given a high polish like conventional composites. We recommend for polishing AMBARINO® Super Polish.

Important:

Working AMBARINO® High-Class Blancs / C-Blocks should always be performed with the intended machine templates in order to prevent over-heating of the material. Failing this, damage to the material can occur, which in turn can lead to deterioration of the physical properties.

Surface treatment/- modification:

Before further processing of the AMBARINO® High-Class restoration, such as colouring or veneering, the surface involved must be treated as a composite surface, which is to be repaired or corrected. For this, we recommend initial powder-blasting of the surface or light abrasion with a milling tool. Then, oil-free pressurised air should be used to remove the lightly adhering dust. An absolute anhydrous processing is important. Before further processing, it must be ensured that the surface is clean, dry and free of grease. Then AMBARINO® CFI K & B Bond, a composite bonding, should be applied and light cured.

AMBARINO® CFI K & B Bond was specially developed for AMBARINO® High-Class and only with the use of AMBARINO® CFI K & B Bond the surface of AMBARINO® High-Class restorations is sufficiently activated for further processing

Veneering:

The surface, activated as described under "Surface treatment/- modification", can be veneered with conventional light-cured K+B composite.

Please consult the manufacturer's recommendations

We recommend AMBARINO® Veneering and AMBARINO® Stains.

Attachment:

Before attachment the AMBARINO® High-Class restoration, the surface to be bonded must also be pretreated in the same manner as described under "Surface treatment/- modification":

Adhesive light- or chemically-cured attaching material must be used when securing the restoration.

Light curing is recommended.

When doing so, be sure to adhere to the User Information of the appropriate product manufacturer.

Notes about storage:

Store at around 10°C to 30°C.

Storage life:

The maximum storage life is printed on the label of each packaging unit and is valid for storage at the prescribed storage temperature.

Warranty:

Our technical advice, whether given verbally, in written form or through practical guidance relate to our own experiences and therefore, can only be taken as guidance.

Our products are subject to continuous further development. Therefore, we reserve the right to make possible modifications.

Note:

During processing dusts are released, which can damage the respiratory tract and irritate the skin and the eyes. Therefore, please only process the material while running an adequate extractor system. Wear gloves, protective goggles and a face mask. Do not inhale the dust.

Adverse effects:

Undesirable side effects of this medical device are extremely rare when properly processed and applied. Immunoreactions (e.g. allergies) or localised discomfort can, however, not be fully excluded as a matter of principle. Should you observe any undesired side effects - even in cases of doubt - please inform us.

Contraindications / Interactions:

This product must not be used if the patient is hypersensitive to one of the components, or should only be used under the strict supervision of the attending doctor / dentist.

In such cases, the composition of the medical device supplied by us can be obtained on request.

Known cross-reactions or interactions of the medical device with other materials already present in the mouth must be taken into consideration by the dentist during use.

Note:

Troubleshooting list:

Error	Cause	Remedy
Milling / grinding procedure delivers unclear results / surfaces	Use of the incorrect tool	Suitable tool (specially produced tools for hybrid materials)
Milling / grinding procedure delivers unclear results / surfaces	Incorrect choice of template	Check the templates and readjust if necessary
Milling / grinding procedure delivers imprecise surfaces and dimensions (fit)	Blanc/C-Block not fitted planar in the clamp. Impurities in the clamp, wear to the tool	Remove the impurities, fit the Blanc/C-Block planar in the clamp, replace tools
Work piece becomes hot	Tool rotation too great / fast	Observe the templates
Milling tool / grinder breaks off	Advance is too high / too great.	Observe the templates

AMBARINO® High-Class is exclusively for use by dental technicians or dentists.

Please supply the dentist with the above information, if this medical device is used to produce a special model.

Waste treatment methods:

Smaller quantities can be disposed of with household waste.

Observe any existing safety data sheets for the product during processing.

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