

KOBRACAST® Art –
Endless possibilities for creative people!



Product description

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Directions for use

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Application area

The thermoplastic polyester cast bandage **KOBRACAST® Art** may be used analog to currently customized cast bandages. It may be used as a replacement of plaster bandages, Styrofoam, wire jute, wire frames and wood. **KOBRACAST® Art** allows finest modeling and large scale forming. It allows the innovation of classical and new creative ideas leading to the accomplishment of the product. It can be used for replication of statues, sculptures and also for living man (Caution: Material contains heat when activated). At any time **KOBRACAST® Art** can be used for free modeling. The surface of **KOBRACAST® Art** allows the use of lacquer (Acryl), water based paint and materials used for modeling or lining.

Caution: **KOBRACAST® Art** can not be used in the medical field. Any activities that fall into the human or veterinarian medical field can only be accomplished by, for these task's qualified, personnel. Not following these directions eliminates all liability of the manufacturer of this product.

Product description

KOBRACAST® Art consists of flexible knitted polyester fabric combined with synthetic polyester material (contains no, to be health endangering accused, isocyanides polyurethane resin). The bandage is not sticky at room temperature and may be stored outside of its package for several years.

KOBRACAST® Art is heat activated (for example: water bath, kitchen pot, water heater at a minimum of 70 degree Celsius [158 degrees Fahrenheit]). It then transforms to its plastic formable stage. The bandage can be applied without gloves due to the fact that the material does not stick to the skin at all. The high flexibility of the material allows a wrinkle free processing. Also the hold together of the different layers is guaranteed. There is no odor release at any time and no release of toxic or sensible reaction causing materials.

After a cool down time of approx. 5 minutes the product becomes solid and after 15 minutes it is stable in itself. The product may be cut by usage of a cutter, medical scissors, gypsum board scissors, or cast saw and can at any time be remodeled when warming it with water or a hair dryer. Products made out of **KOBRACAST® Art** are heat resistant up to 50 degrees Celsius, water and weather resistive and therefore can be used for outside area products also.

KOBRACAST® Art – Advantages of the cast bandage compared to other products on the market

- ✓ Easy, but clean handling, almost like traditionally used elastic or rigid plaster bandages.
- ✓ **KOBRACAST® Art** fascinates by its modeling features and promotes adjustability to assure all work shows finest details and relief contours
- ✓ There is no extra investment necessary. You only need cutting devices, like scissors, cutter, and something to warm up the material, for example a pot with a temperature gauge , a hair dryer, or a water heater, a towel and if wanted a tool to work the surface of the material.
- ✓ **KOBRACAST® Art** is compared to Styrofoam or plaster bandages water and weather resistant and therefore can be especially used for outside projects.
- ✓ In contrast to Styrofoam and plaster bandages can **KOBRACAST® Art** be re-modified and corrected by, for example, use of a hair dryer.
- ✓ Fast stability within a few minutes and therefore less time is needed to allow follow on maintenance and increased flexibility for necessary re-modeling.
- ✓ The surface of **KOBRACAST® Art** offers support for commonly used paints and lacquers, films and lining materials.
- ✓ The structure of the material allows air passage and excellent relation to stability and weight of the product
- ✓ When working with **KOBRACAST® Art** there is no unusable material left, like you find when working with Styrofoam. Also waste can be disposed of in residual waste in compliance with official national regulations.
- ✓ **KOBRACAST® Art** is, as a minimum, storable for three years even without being properly packaged.

Preparation

Due to its separating capability during the mouldable phase, warm water is used to activate the material. Therefore warm water at a minimum temperature of 70 degrees Celsius (158 degrees Fahrenheit) must be present. When activating the material it is suggested, that the heating source has a capability to keep the heat of the water (for example water bath or a water heater with an automatic temperature regulation). For true small detail work it is suggested that a small brush with hot water and/or a hair dryer is used to activate the material.

Caution: The heat source or the heated bandage can cause burns.

User information: Keep work cloth and all surfaces clean. Always have a towel ready to be able to wring out the bandages.

If live objects are used for modeling please always pay attention to the following: The part of the body that is used for modeling should be protected with synthetic swaps, hose bandage, or foam fabric material.

Activation/ transformation into the mouldable phase

The needed bandages must be placed into a compatible vessel and be completely covered by hot/warm water (minimum of 70 degrees Celsius). Soaking time is three minutes at 95 degrees Celsius water temperature and up to seven minutes at 70 degrees Celsius. Not momentarily needed bandages can stay activated in the 70 degrees warm water up to four days and may then be used.

Outside of the medium water you can activate the cast-bandage for example with a flat iron, heat lamp or hair dryer.

Modeling

Activated by heat and formable **KOBRACAST® Art** can be worked without gloves, where four minutes of working time should not be exceeded. When activated without water, the finger tips must be kept wet to avoid the sticking of the material to the hand.

Very seldom the warm material can stick to hair and skin of the using person (particles can stick). Preventing this can be accomplished by the use of cold water and/or hand protection cream on the modeling body parts and on the workers hands prior to the use of **KOBRACAST® Art** bandages.

The warm bandages (between 65 degrees Celsius and 70 degrees Celsius) will, after being removed from the water bath and released from unnecessary water, be placed on a dry towel and slightly pressed to release more water. The bandage will then be immediately placed on the model (for example in a spiral form). During this phase it is important, that no tension is used during the application phase, which means to no power should be used to pull and extend the material. If the material is connected by extending the covered area the borders should be cut in zigzag and overlap between two and three centimeters. The connecting of the material is more effective when dry heat (heat lamp or hair dryer) is used.

Recommended number of layers is between one and four, depending on the needed stability. When working with **KOBRACAST® Art** it is important to avoid wrinkles and pockets. The modeling must happen at a permanent phase to allow for interaction and stability of the different layers.

Within a cool down/waiting time of five minutes **KOBRACAST® Art** will stabilize. After approx. minutes the model product can be processed for follow up work.

User tips

..for masks and costumes: Stable and creative decorated arm and leg splints can be produced by using two layers of **KOBRACAST® Art**. They can easily be removed and/or reestablished at the body parts due to the high flexibility of the material. If needed strings and/or Velcro bandage can be used. The splints may be cut with gypsum scissors and be

worked or re-modeled by use of hot cloth, water bath or hair dryer, for example to straighten out cutting edges, to add stabilizers, or to decorate and model the surface of the product. When producing helmets or crowns it is suggested to use a wire scaffold as basic, then use **KOBRACAST® Art** to stabilize and strengthen it.

..for sculptures: When the copied figurine needs to be completely covered with **KOBRACAST® Art** it is necessary to assure the model is protected with a compatible plastic foil to be able to separate the two parts easy. The cast itself may be cut open with a cutter and then be separated. Afterwards it can be reconnected with a cast-bandage or plastic adhesive. It is also possible to cover only 75% of the model, separate it from the model, and then close the necessary portions with **KOBRACAST® Art**.

Cutting/Separation/Treatment

KOBRACAST® Art may be cut up to for layers by use of gypsum or medical scissors. If necessary, special cast scissors, a horse shoe shaped razor blade, a cast cutter or a cast saw may be used. Please follow all required safety concerns and regulations when using these tools. No glass dust will accumulate during the cutting of the bandages.

The surface of **KOBRACAST® Art** may be modified by using a file or rasp.

Necessary precautions/ Safety considerations

- Working temperature of **KOBRACAST® Art** should be approx. 70 degrees Celsius (158 degrees Fahrenheit). Burns to the user and the model may be caused when higher temperatures are used. Heat sensitive users should wear gloves and keep the hands wet when working with the activated material. For the model itself a hose bandage under layer is sufficient.
- The cast should not be too loose or too tight, and without tension when bandaged around the project. Don't use pulling force when bandaging. Tightness must be corrected immediately.
- The modeling phase must be done without interruptions to allow interconnection of the different layers.
- The product, made out of **KOBRACAST® Art** can't be exposed to temperatures above 50 degrees Celsius. If done the product may lose its stability and become soft again. Therefore it is suggested to use a temperature-stable surface material rather not to exceed this temperature.
- **KOBRACAST® Art** is rated at B2 in accordance with DIN 4102 (see Technical Data Sheet). In accordance with the areas of usage it is suggested to use putty, impregnating materials, like water based paints or sprays to increase the fire protection rating to B1 (DIN4102).

Storage/ Expiry time

It is suggested to store the bandages at room temperature. It should not be exposed to direct sun light and other heat producing sources. **KOBRACAST® Art** may be exposed to temperatures of 50 degrees Celsius for short period of time. **KOBRACAST® Art** can be stored a minimum of 36 month starting at the date of production when following the recommended storage requirements.

Disposal

KOBRACAST® Art can be disposed with residual waste in compliance with official national regulations.