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## ALGINATE LIFECAST ECO

### DESCRIPTION:

Alginate is a material based on sodium alginate (irreversible hydrocolloid) for mixing with water, suitable for making molds (casts) of objects and parts of the human body. When applied, it has a creamy and soft texture, spreads easily and perfectly reproduces every detail. It is characterized by good thixotropy, so the mixture flows easily during application but does not drip.

Alginate: it has good elasticity, which facilitates its removal in difficult conditions of use. Alginate is formulated with natural polymers and undergoes a dust-free treatment; it follows a product whose use is particularly safe, which does not generate dust, is completely non-toxic and easy to use. The molds obtained with alginate can be filled (cast) with various materials such as gypsum, wax, water-based casting resins, silicones.

### TECHNICAL PROPERTIES:

Color: white or pink

| Alginate (gram) | Water (ml)      | Ratio | Processing time(min:sec) | Difference with previous |
|-----------------|-----------------|-------|--------------------------|--------------------------|
| 25              | 50 (demi water) | 1:2   | 3:20                     | -                        |
| 25              | 50 (tap water)  | 1:2   | 3:25                     | -                        |
| 10              | 30 (tap water)  | 1:3   | 3:45                     | 0:20                     |
| 10              | 40 (tap water)  | 1:4   | 4:10                     | 0:25                     |

The processing times are measured with a plastic stick on the surface. There may still be material on the inside that has not hardened.

The times also depend on the temperature (environment and water) and what kind of water it is (hard or soft water). With this set it is between 20 and 25 seconds.

### APPLICATION AREAS:

Alginate is used for making molds of objects and parts of the human body (body casting). Using fillers for silicone rubbers (for polyaddition), it is possible to obtain reproductions of extremely faithful and detailed anatomical parts, which can be used in the world of special effects. Instead, by using extra hard plaster for casting, it is possible to obtain artifacts with a very similar appearance to ceramics, also characterized by an extreme definition of detail.

### INSTRUCTIONS:

In accordance with the stated mixing ratio, pour the required amount of water into a clean mixing bowl (preferably in silicone), add the relative amount of alginate (pre-dosed) and then mix vigorously with a spatula for the specified time until a homogeneous mixture and lump-free consistency is obtained. For quantities in excess of 50 g of powder it is recommended to mix with a drill mixer equipped with a suitable whisk or an automatic mixer.

Spread the mixture evenly over the desired body part / object and wait for it to harden. To increase the rigidity of the mold, it is recommended to make a reinforcing support mold by applying plaster cast.

These are placed on the mold when the mixture has hardened and is no longer sticky to the touch; Wait another 3-5 minutes after application and curing, then carefully remove the mold and backing mold.

The life of the cured alginate (useful time for pouring) can be extended by storing it in a tightly sealed PE bag. In any case, it is advisable to fill the mold with the chosen casting material (eg plaster) as soon as possible, following the manufacturer's instructions.

When the casting material is fully cured, carefully remove the mold and dispose of it according to applicable local regulations.

The mold cannot be reused.



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**WARNING:**

Before applying alginate to anatomical parts, especially with hairs, it may be necessary to protect them adequately. It is advisable to cover the hair with a suitable cap and protect it by applying a very thin layer of Vaseline oil or a make-up remover. While applying, make sure that the model's nostrils are not blocked.

**STORAGE:**

Alginate must be protected from moisture and heat sources; store the product in the intact packaging in a dry and cool place (10-25 ° C / 50-77 ° F). After opening the packaging, it is recommended to close it tightly or transfer the product to a hermetically sealed container.

**EXPIRATION DATE:**

12 months.