G I L T O N K M

Synthesegips Service

Cold hardening modelling compound

A non-toxic material that can be kneaded like clay, for making decorative and functional objects like statues, vases, jugs, brooches etc. Can be processed using all conventional potter's techniques.

- Firing not necessary
- Physiologically harmless
- Surface treatment with all familiar paints, dyes, laquers and glazes

Characteristic data

Apperance	powder
Mixing ratio powder : water	4 kg : 1 l
= mixture volume	3 litres
Processing time	60 min
Moldability with potter's tools, depending on technique involved	15 - 30 min.
Complete hardening at	
▪ room temperature after	1 - 2 days
▪ app. 50° C	app. 12 h

Processing

Scatter the powder in the water provided, following mixing ratio stated above. Mix thoroughly and knead intensively with your hands like dough. The consistency of the modelling compound can be corrected by adding a little water or powder as required. If it is too crumbly, add some water; if it sticks to your hands, add some more powder. After a short kneading time, the compound will have the correct workability and can be processed until approximately one hour after beginning mixing. The mixture should accordingly not be more in volume than you can mould during this period. When making relatively large molded parts we recommend adding the next mixture onto the already-molded piece before the processing time for the preceding mixture has elapsed. This "wet-in-wet" structure ensures that the different layers bond together properly. The surface can be easily smoothened with a moist finger.

Once the processing time has elapsed, the modelling compound will begin to harden, but the surface can still be worked on with a knife or a modelling noose (depending on the technique being used) for 15 to 30 min. Depending on their size, the molded parts will be completely hardened after 1 - 2 days. At a slightly increased temperature (e.g. in the oven at the lowest setting, approx. 50° C) the drying can be reduced. Higher temperatures however should be avoided.
After this, the object can be painted or lacquered. When using water-soluble paint (Plaka, dispersion or farmyard-painting paints) sealing with an acrylic-resin protective lacquer is possible. In order to render functional objects made of GILTON KM waterproof, a treatment with a polyurethane lacquer is required. We particularly recommend single-component polyurethane lacquers of the type available from dealers. Easy accessible points can be given a pore-sealed coating by painting over with a brush one or two times. For hollow bodies (e.g. vases) we recommend proceeding as follows: dilute the polyurethane lacquer with about 10 % of the thinner suitable for this purpose and use it as a primer. To do this, pour the diluted lacquer into the completely hardened and dried vessel made of GILTON KM and tilt it in all directions until the primer has thoroughly wetted the entire inside surface. Then pour out any superfluous primer. After about 3 hours, the top coating can be applied repeating this procedure with undiluted lacquer.

Shelf life

Not less than 1 year in well-sealed, moisture-proof containers.

Packing

Paper sacks with foil inlay	50 kg
Paper sacks with foil inlay	25 kg
Foil bags	5 kg

The above recommendations are given to the best of our knowledge. We grant the quality of our products according to our specification. Any further liability cannot be accepted since the proper application of our products is outside of our control.

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