

GELCOAT G-1-A



Thixotroped unsaturated polyester

- Description:** It is thixotroped, preliminary accelerated, orthophthalic, unsaturated polyester resin.
- Use:** Gelcoat G-1-A is applied for making of facial coat of articles from glass fiber and polymer marble. Applied in ships- and boat construction, on production of sanitary equipment, industrial details, reservoirs, basins and glass reinforced articles.
 The hardening is carried out by addition of 2,0 % MEKP-50 (Butanox M-50).
- Properties:** Gelcoat G-1-A:
- Gives to the articles:
 - Resistance to impact;
 - Water resistance ;
 - It is designed for manual application;
 - Could be pigmented with organic and inorganic pigment pastes;
 - Could be applied over unsaturated polyester resins with glass fiber.
- Classifications:** Complies with requirements of EU legislation.

CHARACTERISTICS

INDEXES	NORM
Appearance after stirring: (visually)	Pink colour thixotroped liquid
Non-volatile content, 125°C/1h (BNS EN ISO 3251)	65±2 %
Viscosity after Brookfield, 25°C: - sp. 2, 2 rpm - sp. 2, 20 rpm	33 000 – 43 000 mPa.s 6 000 – 9 000 mPa.s
Gelling time 20°C: (ISO 2535)	10 -15 min

Thixotropic index : min 5,0
(ASTM D 2196-05 (B))

OTHER DETAILS

Density: 1,14 g/cm³
(BNS EN ISO 2811-1)

Flash point, in covered pot : 32°C
(BNS ISO 2719)

Application: Gelcoat G-1-A has to be homogenized well before use. It is curing with following hardening system: to 1000 g of resin add 20 g hardener MEKP-50 (Butanox M-50), homogenize mixture well and after that use as intended. Pot life of the mixture is from 10 to 15 minutes and depends on the temperature of the resin, as the process of gelling accelerates additionally on temperature higher than 20°C, and the lower temperature (under 15°C) decreases the gelling time.

Method of application: With brush

Cleaning of the tools: Acetone, butyl acetate, ethyl acetate, nitrocellulose thinner

Packaging: In metal cans

Storage: Store in tightly closed packaging in closed, dry and fire proof storage premises, with no access of direct sunlight at temperature up to 25°C.
In case of separation the system has to be homogenized before usage.
Prolonged storage or storage outside of recommended condition can influence on liquid resin properties like viscosity and gel time. An addition of 0.5-1.0% Co-1% may be necessary to restore the original potlife.
Shelf life - 4 months from date of production in fabrically closed packaging.

Hygiene, safety work and ecology: Refer to the Material Safety Data Sheet for further information on the safe storage, use and handling of Gelcoat G-1-A. The Material Safety Data Sheet (MSDS) should always be read and understood thoroughly before handling the product, and adequate safety procedures should be followed.

The present technical description has the purpose to inform the clients on the quality of our product. The data herein is based on our present best knowledge. We invite our clients before work to check the quality of the product or its adaptation to the base and to make an experimental application. Our clients must be sure, that the present technical description hasn't been changed or replaced by a newer edition.

Orgachim Resins®

Ruse 7000, 21 Treti mart Blvd., tel.: +359 82 886 340; fax: +359 82 886 340

www.orgachimresins.bg