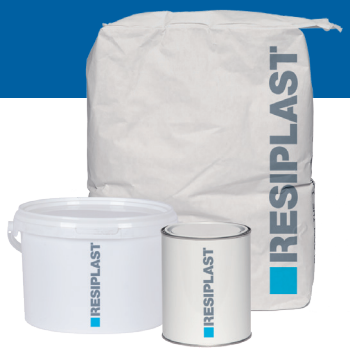
# EPISOL® GM

**EPOXY TROWEL AND REPAIR MORTAR FOR HIGH MECHANICAL AND CHEMICAL LOADS**


## DESCRIPTION

EPISOL® GM is an epoxy-based, liquid-tight, highly mechanically and chemically loadable trowel and repair mortar.

## BENEFITS

- Simple processing
- High resistance to heavy dynamic loads
- High wear resistance
- Impermeable
- Slightly non-slip surface
- High chemical resistance

## FIELD OF APPLICATION

EPISOL® GM is suitable for use as a trowel mortar for indoor floors and as a repair mortar on cementitious and wooden substrates, indoors/outdoors and in wet areas.

## APPLICATION

**Note:** The following is a typical application description. In case of other jobsite parameters, please contact our technical department.

### PRELIMINARY ANALYSES

Before starting the substrate preparation and applying the products, it is important to test various parameters in order to achieve a good and sustainable result.
Compressive strength of the substrate: min. 25 N/mm²
Tensile strength of the substrate: min. 1.5 N/mm²
EPISOL® GM must be applied on a dry surface. Moisture content in the substrate: ≤ 5% moisture.
Conditions during the application and curing: see "implementation conditions" further described in this technical data sheet.
Technically studied dilatation joints must be provided. These are resumed in the synthetic resin system to be installed.
The flatness of the surface must be consistent with the desired requirements. Should this not be the case, correct measures must be taken to fill in or smooth out the unevenness with products that are complementary to the substrate and to the synthetic resin system to be installed.
Shrink joints and passive cracks can be coated. This on condition that they are not used as dilatation joints or if they do not follow other movements of the structure and the substrate and that they are flattened with products that are complementary to the substrate and to the synthetic resin system to be installed.

### REQUIRED TOOLS

- Paint roll
- Mixing bucket

### PREPARATION OF THE SUBSTRATE

Make sure the surface is clean. The recommended processing temperature for the surface, the surroundings and the material is 15 to 25 °C. Do not use below 5 °C.
Apply EPISOL® GM on a still tacky coat of EPISOL® PRIMER EM/GM or on a sprinkled cured primer coat.
A primer is not necessary for small repairs.

### PREPARATION OF THE PRODUCT

Stir the base (component A) evenly before use. Add the full amount of hardener (component B) and mix mechanically (300 rev/min) until both components are homogeneous. Slowly add the filler component to the mix. Mix until homogeneous.

### PREPARATION OF THE EQUIPMENT

Always work with clean material.

### APPLICATION

Spread with a flat trowel.
Apply several coats for layer thicknesses greater than 5 cm. Make sure that the previous coat has cooled off.
Minimum layer thickness 6 mm, optimal layer thickness is between 8 and 11 mm.
EPISOL® GM is impermeable.
After 12 hours, EPISOL® GM can be finished off with an EPISOL® coating.

### COMPLIMENTARY PRODUCTS

- EPISOL® PRIMER EM/GM
- Cleaning solvent for tools: SOLVENT MEK

## TECHNICAL DATA

### APPEARANCE

| | |
|---|---|
| A-component | Modified epoxy resin lightly thixotropic |
| B-component | Polyamine hardener |
| C-component | Dry filler |

### REACTION TIMES

After 12 hours of curing, the floor is walkable and overcoatable.
Can be mechanically loaded after 4 days.
Complete chemical resistance after 7 days at 20 °C, lower temperatures will extend the curing time.

### CONSUMPTION

2 kg/m² per mm layer thickness.

RESIPLAST
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## TECHNICAL DATA

| | |
|---|---|
| Specific mass | 2.0 kg/dm³ |
| Colour | Sand colour |
| Surface | Non-slip surface |
| Pressure resistance | Ca. 87 N/mm² |
| Flexural strength | Ca. 20 N/mm² |
| Adhesion to concrete | 2.6 N/mm²<br>(exceeds concrete cohesion) |
| E-modulus | 1400 N/mm² |
| Heat resistance | 60 °C |
| Min. application temperature<br>Min. hardening temperature | +10 °C<br>+5 °C |
| Processing time | +/- 25 minutes at 20 °C |
| Curing | Non-shrinking |
| Shelf life | 24 months |

## CHEMICAL RESISTANCES

EPISOL® GM has an excellent chemical resistance to alkalis, petroleum derivatives, acid, diluted organic acids, salts and solutions. For more information please contact
RESIPLAST NV.

## CE MARKING

| | |
|---|---|
| CE | |
| KORAC NV, Gulkenrodestraat 3, 2160 Wommelgem, Belgium | |
| 12 | |
| EN 13813 | |
| Synthetic resin floor/coating for indoor use in buildings | |
| Release of corrosive substances | SR |
| Abrasion resistance | ≤ AR0,5 |
| Bond strength | ≥ B2,0 |
| Impact resistance | ≥ IR10 |
| Reaction to fire | $E_{fl}$ |

## REFERENCE DOCUMENTS

bsi. ISO 9001:2015 Quality Management FM 78518

bsi. ISO 14001:2015 Environmental Management EMS 716699

REACH COMPLIANT

## PACKAGING

| EPISOL® GM | Comp A | Comp B | Comp C |
|---|---|---|---|
| Set 15 kg | 1.88 kg | 0.72 kg | 12.4 kg |

## STORAGE AND SHELF LIFE

Store EPISOL® GM in a dry, well ventilated storage area between 5 and 35 °C. 24 months shelf life, C component unlimited shelf life.
If in doubt, contact RESIPLAST NV and provide the batch number on the package. Do not let the product get in contact with ground water, surface water or sewage systems. Dispose of contaminated packaging and remnants according to legal regulations.

## SAFETY PRECAUTIONS

Carefully read the safety instructions before using EPISOL® GM. Products have a characteristic odour when being applied. Ensure there is sufficient ventilation, stay away from ignition sources and do not smoke. Avoid contact with skin. Eye irritation and/or sensitivity may occur during heavy vapour concentrations, inhalation and/or skin contact. Do not keep food products (food, beverages) in the same workspace. Always wear personal protective equipment according to local guidelines and regulations. Gloves and safety goggles are mandatory.



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