

EPISOL® PRIMER EM/GM



PRIMER FOR EPOXY TROWEL MORTARS



DESCRIPTION

EPISOL® PRIMER EM/GM is the appropriate epoxy primer for EPISOL® EM, EPISOL® GM and EPISOL® RM epoxy trowel mortars.

ADVANTAGES

- Excellent adhesion on dry surfaces.
- Trafficable after 12 hours
- Good spreading out quality
- Light thixotropic
- Moisture-insensitive curing
- Silicone free

FIELD OF APPLICATION

Epoxyprimer for EPISOL® EM/GM/RM epoxy trowel mortars, resin mortars for industrial floors with high mechanical and chemical load.

- Underground and above ground parking decks
- Garages
- Workshops
- Warehouses
- Storage areas for hazardous goods
- Floors to be coated on an industrial basis
- etc...

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® PRIMER EM/MG can be applied as a universal primer in one layer 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, then correct measures have to be taken to fill in or smooth out the irregularities with products that are complementary to the substrate and to the coating to be installed. Shrink joints and passive cracks can be coated. This on condition that they are not used as dilatation joints or that they are not following 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

- Mixer with spindle (min. 300 rpm)
- Rubber squeegee
- Brush or roller
- Masking tape.

PREPARATION OF THE SUBSTRATE

Cracks, joints and other parts that show water leaks must first be made completely water-tight and leak-proof.

The surface must be mechanically pre-treated. This can be achieved by removing the dust by bullet- or sandblasting or by sanding the surface. These treatments ensure that an open texture surface is obtained, to remove the cement skin from concrete and old remnants of coatings and adhesives.

High pressure water jetting is possible but then the surface must dry sufficiently before applying the primer. (moisture content in the substrate: ≤ 5%)

Before applying the primer:

Always apply the products on a clean surface, free from adhesion reducing materials such as dirt, oil, grease, old coatings or surface treatments, ...

The parts of the surfaces to be coated that do not meet the requirements as described above (compressive strength, tensile strength, parts that are not well connected, ...) must be treated or removed and repaired according to a correct method and with products that are complementary to the substrate and the synthetic resin system to be installed.

If you choose to work with a seamless plinth, use RESIPOX® PRIMER with RESIPOX® epoxy repair and plinth mortar.

Remove any loose parts by brushing properly and remove dust with an industrial vacuum cleaner.

PREPARATION OF THE PRODUCT

Mixing

Stir the base (component A) homogeneously before use. Add the full amount of hardener (component B) and mix mechanically (300 rpm) until both components are homogeneous.

PREPARATION OF THE EQUIPMENT

Always work with clean mixing containers and application material.

APPLICATION

Spread EPISOL® PRIMER EM/GM with a rubber squeegee, brush or paint roller. Treat the mixed product within 15 minutes.

FINISHING

Apply EPISOL® EM/GM/RM trowel mortar on to the still sticky and moist primer layer (wet in wet). RESIPOX® PRIMER EM/GM stays sticky for about an hour. If the primer no longer sticks, an additional layer of EPISOL® PRIMER EM/GM must be applied before placing the EPISOL® EM/GM/RM trowel mortar.

APPLICATION CONDITIONS

Relative humidity: Max. 85%

Dew point: The temperature of the substrate and of the not fully cured product must be at least 3°C higher than the dew point. Avoid condensation on the surface from the moment that the preparations start until the complete curing of the products. Ensure adequate ventilation and a low relative humidity during curing.

CLEANING AND MAINTENANCE

Clean the used tools with SOLVENT MEK before the curing of EPISOL® PRIMER EM/GM. Cured products residues must be removed mechanically.

For cleaning and maintenance of the installed synthetic resin systems please refer to the information sheets:

Cleaning and maintenance of synthetic resin floor systems - INDUSTRY
Cleaning and maintenance of synthetic resin floor systems - PUBLIC AND PRIVATE BUILDINGS.

COMPLIMENTARY PRODUCTS

- Cleaning solvent for tools: SOLVENT MEK

ADVICE / FOCAL POINTS

EPISOL® PRIMER EM/GM must not be diluted.

When treating a new concrete surface, this must be at least 28 days old.

TECHNICAL DATA**APPEARANCE - COMPOSITION**

A-component	Modified epoxy resin light thixotropic
B-component	Polyamine hardener
Colour	Amber transparent

REACTION TIMES

Processing time after mixing: 15 min

Trafficable After 12 hours

Full mechanical load: after 4 days

Full chemical resistance: after 7 days

Times measured at 20°C; lower temperatures extend the curing time.

CONSUMPTION

Approximately 350 g/m² to 500 g/m².


TECHNICAL DATA

Density	1,1 kg/dm ³
Colours	Amber transparent
Bonding to concrete	2,6 N/mm ² (Exceeds concrete cohesion)
Heat resistance	50°C continuous
Processing time	Ca 15 minutes at 20°C
Curing	Shrink-free

CHEMICAL RESISTANCES

Excellent chemical resistance to alkalis, petroleum derivatives, battery acid, diluted organic acids, salts and solutions. For more information please contact RESIPLAST NV.

CE TABLE

	
Resiplast NV, Gulkenrodestraat 3, B-2160 Wommelgem	
12	
EN 13813	
Resin screed/coating for use indoors in buildings.	

Reaction to fire	E _{fi}
Release of corrosive components	SR
Water permeability	NPD
Abrasion resistance (Taber)	<5 mg (CS10-1000 tr - 1 kg)
Bond strength	B 1,5
Impact resistance (DIN EN ISO 6272)	>10 Nm
Sound insulation	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

REFERENCE DOCUMENTS

FM 78518



EMS 716699

PACKAGING

EPISOL® PRIMER EM/GM	Comp A	Comp B
Set 2,6 kg	1,88 kg	0,72 kg

STORAGE AND SHELF LIFE

Store EPISOL® PRIMER EM/GM in a dry, well-ventilated storage area between +5 and +35°C. Shelf life: 24 months after production date.

In case of doubt, please contact RESIPLAST NV and state the batch number on the packaging. Do not discharge into groundwater, surface water of sewers. Dispose of contaminated packaging and residues in accordance with the applicable legal requirements.

SAFETY PRECAUTIONS

Carefully read the safety data sheets before using EPISOL® PRIMER EM/GM. Ensure adequate ventilation, keep away from sources of ignition and do not smoke. Avoid skin contact. Eye irritation and/or hypersensitivity may occur with severe vapour concentration, inhalation and/or skin contact. Do not store food (food, drinks) in the same workspace. Always wear personal safety equipment in accordance with the applicable local guidelines and legislation. Gloves and safety glasses are mandatory.

The above information is provided in good faith, but without any guarantees. The application, use and processing of the products are beyond our control and are, as such, the sole responsibility of the user/processor. In the event that Resiplast N.V. is still held liable for damages, then the claim will still be limited to the value of the goods delivered. We always aim to deliver consistently high quality goods. All values on this technical sheet are average values that result from tests carried out under laboratory conditions (20°C and 50% RH). Values that are measured on the construction site may show a slight deviation since the environmental conditions, the application, and the way of processing our products are beyond our control. Do not add any products other than those indicated on the technical documentation. This version replaces all previous versions. Version 2.0 Date: 5 November 2020 1:36 pm