

EM 10

Emulsion



Modifying emulsion for concrete, screeds, mortars, and adhesives

APPLICATION:

Polymer dispersion, specifically intended for the production of adhesive bridges – for example, the production of composite screeds on smooth concrete.

In fresh mixtures, this product reduces the water coefficient value, improves plasticity and increases water retention, reduces evaporation of water, and formation of shrinkage cracks.

In matured materials, this product increases frost resistance, abrasion resistance, chemical resistance, elasticity, and reduces absorption.

It enables the preparation of polymer-cement mortars and screeds for built-in wall and floor heating, and for structures with higher climatic and mechanical stresses.

In addition, this product can be used in repair mortars and materials intended the renovation of concrete structures.

Characteristic features:

- increases tensile bending strength
- improves adhesion
- reduces too quick drying
- prevents surface pulverisation
- has a liquefying effect

COMPOSITION:

Solvent-free material on the basis of synthetic, polymer dispersion

TECHNICAL PARAMETERS:

Consistency	liquid
Specific weight	1.02 g/cm ³
Dry-matter content	(47±1)%
Ph value	7-8
Viscosity	30-150 mPa.s
Solubility in water	fully miscible
Colour	white

NOTE: The technical parameters are determined under standard conditions (20 ± 2)°C and (65 ± 5)% of relative air humidity.

LASSELSBERGER, s.r.o.
Adelova 2549/1
320 00 Plzeň - Jižní Předměstí
Czech Republic

TEL +420 378 021 111
FAX +420 378 021 119
E-MAIL info@rako.cz
WEB www.rako.cz

BANK DETAILS: Česká spořitelna, a. s.
6221912/0800
Company ID number 25238078
Tax ID number CZ25238078

The company is registered in the Companies Register, administered by the Regional Court in Plzeň, Section C, File 22719

TECHNICKÝ LIST /

APPROXIMATE COVERAGE *)			
1	Creation of combined screeds	Adhesion layer: In laying of screed OV 30 (OV 30 SPEED) on the base – first, a paste-like liquid contact bridge has to be prepared (0.8 litre of emulsion and 0.8 litre of water) and mixed with 8 kg of OV 30 (OV 30 SPEED) . Apply this mixture on the base, using a rough brush or toothed smoother. Apply the screed on the adhesion layer, using a "fresh on fresh" method.	approx. 0.8 l/m ² at the layer of 5 mm

APPROXIMATE COVERAGE *)			
2	Dust-free, heated screed	OV 30 (OV 30 SPEED) has to be mixed with the mixing liquid by mixing emulsion and water in the ratio of 1 : 2 to 1 : 3, i.e. 2.5-3.75% EM 10 (related to the dry mixture).	0.5-0.9 l/m ² and the thickness of 10 mm
3	Admixture to LE 21 levelling material	As a mixing liquid in the ratio of 1 : 3 to 1 : 5 (emulsion : water), it improves adhesion and elasticity of material.	1.0-1.5 l/25 kg bag

*) Depending on the method of application, and the type of modified material as an admixture to mixing water.

BASE PREPARATION:

All applications should be performed on a thoroughly prepared base. The base must be free of dust and loose particles. Base layers with lower adhesion, and layers soiled with separation oil or other fat-containing substances, need to be removed. Before application, the base must be penetrated using the **PE 201** or **PE 202** products.

PROCESSING:

The **EM 10** is compatible with the commonly used cements.

If the mixing ratio indicated in the Technical Data Sheets is met, cement hydration will not be compromised.

Treated mortar with no acceleration agents, screed or adhesive may be fully loaded after 25-28 days.

Cleaning:

Due to the excellent adhesion of **EM 10**, all working tools need to be cleaned with water immediately after use. The hardened residues on tools can be removed only mechanically.

CAUTION:

- Do not use for the products already modified with redispersible polymers (see the product composition indicated in the Technical Data Sheets).
- Related civil engineering structures should be carefully covered and protected from splashes.
- Process only at a temperature ranging from +5°C to +30°C. The work cannot be done if frost is expected.
- Wash used working tools thoroughly with water in a timely manner.
- Leave the unused residues to air harden (dry), and dispose of them, together with contaminated containers, in a controlled landfill (see the Safety Data Sheet).
- Only completely emptied and clean packaging may be handed over to recycling.

FIRST AID, SAFETY AND HYGIENE REGULATIONS:

See the product Safety Data Sheet.

STORAGE:

Store the product protected from frost at a temperature ranging from +5°C to +30°C. The minimum storage time is 12 months, if the product is stored in the originally closed buckets. The expiration date is specified on the packaging.

SHIPPING:

The emulsion **EM 10** is supplied in 5 kg or 10 kg plastic containers.

QUALITY:

- The product quality is regularly checked in the manufacturer's laboratories.
- The production control system is used in manufacture, and a certified quality management system, according to ISO 9001, is applied.
- Continuous surveillance and proving the conformity of products (if necessary) is ensured by TZUS Prague, Authorised Body 204.

DISTRIBUTOR:

LASSELSBERGER, s.r.o., Adelova 2549/1, 320 00 Pilsen – Jižní Předměstí

VALIDITY:

Since 1 March 2015

We reserve the right to make any changes that are the result of technical progress. This issue cancels and supersedes all previous issues.

LASSELSBERGER, s.r.o.
Adelova 2549/1
320 00 Plzeň - Jižní Předměstí
Czech Republic

TEL +420 378 021 111
FAX +420 378 021 119
E-MAIL info@rako.cz
WEB www.rako.cz

BANK DETAILS: Česká spořitelna, a. s.
6221912/0800
Company ID number 25238078
Tax ID number CZ25238078

The company is registered in the Companies Register, administered by the Regional Court in Plzeň, Section C, File 22719