



Technical datasheet

SYSTOPP®

Colerit EH2

Solvent-free, two component epoxy resin bonding agent and damp proof membrane for mineral bases

Artnr.: 43.600

Function

SYSTOPP® Colerit EH2 is a fast drying, two component epoxy resin bonding agent for the production of high-quality bonded screeds. Also appropriate as a damp proof membrane against increased residual humidity.



Application area

All cement and calcium sulphate bonded bases inclusive problematic bases like closed-pored waterproof concretes, old concretes, etc.

Characteristics

Adhesive properties for cement or calcium sulphate bonded bonding screeds on bearing concrete, mortar and screed bases. Waterproofing for substrates with up to 6% residual humidity. Regulating effect on the absorptive capacity.

Product information

Density:	at 20° C	ca. 1.15 kg/l
Viscosity:	at 20° C	ca. 1.000 mPas
Processing time:	at 20° C	ca. 25 minutes
Mixing ratio:	2,3 plus 1	Resin plus hardener in weight
Solids content volume:	ca. 100%	

Temperature information

Processing temperature:	between + 10°C and + 30°C*
Relative air humidity:	< 80 % when processing

*in general, higher temperatures shorten the processing time and reduce viscosity. Low temperatures extend the processing time and increase viscosity.

Base

The cement base must be solid, dry, free from cracks, clean and free of materials that could affect the adhesive strength. The base must have a minimum class of C20/25 or CT/CA-C20-F4 and a pull-up strength ≥ 1.0 MPa. Application must be on dry to pale damp ($\leq 6\%$ humidity), puddle free bases (note: calcite sulphate bonded substrates need to be dry (e.g. ≤ 0.5 CM-% residual humidity). Furthermore, it must be safeguarded against increasing moisture. During processing, the temperature of the base must be at least 3°C above the prevailing dew point temperatures.

Consumption

As a bonding agent:

Single coat: 400 to 700 g/m² depending on absorptive capacity and roughness of the base per roller.

As a damp proof membrane:

Two independent coats: total consumption at least 600 g/m² depending on absorptive capacity and roughness of the base.

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The indications and recommendations are conforming to the recent status of our knowledge and do not free the customer of our product to test the product on its own for its operation purpose. All liability from these prescriptions is excluded.



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Processing

As a bonding agent:

Mix the resin A and the hardener B, suitably filled in a tinfoil container. The hardening component must be stirred into the resin components. Mix with a mechanical agitator – ensure a mixing time of 3 minutes! SYSTOPP® Colerit EH2 must be applied undiluted by using a lambskin roller, brush or rigid broom. The processing time (pot life) after mixing is 2 hours. The application of the conventional cement or calcium sulphate-bound conventional compound screeds must be taken wet on wet prior to the onset of the drying process of SYSTOPP® Colerit EH2.

As a damp proof membrane:

Mixing process identical to application as a bonding agent (see above mentioned). The application of two independent coats with a delay of 24h is necessary to achieve waterproofing properties. SYSTOPP® Colerit EH2 must be applied undiluted by using a lambskin roller, brush or rigid broom. It is recommended to sand the second coat to increase the bonding capacity with levelling compounds and thin-bed mortars.



Supply form

SYSTOPP® Colerit EH2 is supplied in the following forms:

- 20 kgs: 13.88 kgs resin and 6.12 kgs hardener in tinfoil containers or cans
- 10 kgs: 6.94 kgs resin and 3.06 kgs hardener in tinfoil containers or cans

Storage

SYSTOPP® Colerit EH2 is storable for at least one year from the production date at a storage temperature of 10°C to 30°C in well closed original containers.

General

For the processing apply, all relevant norms, prescriptions and craft rules, especially DIN EN 13813, DIN 18560 and DIN 18353. Furthermore apply all prescriptions and indications of the BEB process sheets "industrial bases of reaction resin", accident prevention prescriptions as well as data sheets and directives of the chemical professional association such as BG data sheets M 004 "irritant substances / corrosive substances" and M 023 "polyester and epoxy resins".

Legal notices

All technical data and information in this leaflet are based on laboratory tests. Divergences can occur due to special conditions at the construction site which we are unable to influence. All information, prescriptions and recommendations for the processing and the use of our products refer to our experiences and insights for the standard case and require a proper storage and processing. A legal warranty for a working result or a liability from these prescriptions or oral consulting cannot be withdrawn, because of use of different materials, bases and working conditions, only if we can be charged with intention or gross negligence. The user must prove that he has sent all knowledge in written form and in due time to the company Knopp GmbH to permit a correct rating.

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