



Floor Expert

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Replacing NA, new



CLS

Cement based fast setting screed for levelling in slopes, 5-70 mm. Has a high final strength and is aimed for floating constructions For indoor use only.

- Very good for levelling in slopes
- Fast setting
- High final strength
- Minimal shrinkages
- Pumpable
- Suitable for applications on subfloor heating system.

TECHNICAL DATA

Basis: Cement based
Density: 1,45 kg/liter of dry powder
Consumption: approx. 1,9 kg/m²/mm
Layer thickness: 5 - 70 mm
Potlife: approx. 20 minutes
Walk-able: approx. 1,5 hours
Cover-able: approx. 24 hours < 50 mm
Application temperature: Not below +5°C, best conditions between +15°C - +20°C
pH: >11,5
EN 13813: CT-C40-F6

All values are approximate and are subject to climate fluctuations.

All technical data values are given considering normal room climate conditions (+20°C and 50% RH).

APPLICATIONS

CLS is suitable:

- For repairing, filling and levelling in thick layers on solid substrates.
- Can be covered with all types of flooring (wood, plastic, linoleum, ceramic, etc.). The surface may need to be fine-smoothed with additional levelling compound for best results.
- On floating construction on polyethylene foil, moisture barrier layer, polyethylene carpet or filling

materials (eg. Leca), the layer thickness must be at least 35 mm.

- For floating construction on insulating layer (eg. Polystyrene, Styrofoam or similar), the layer thickness must be at least 35 mm. On soft insulating layers (>5 mm compression with loading), high loading (> 2 KN/m²) or warm water underfloorheating systems the layerthickness must be increased.
- To be used in homes, offices, hospitals, schools and similar.

SUBSTRATES

CLS is suitable on interior substrates like:

- Concrete and screed.
- Foil or moisture barrier polyethylene layers on solid substrates.
- Filling material (e.g leca) or similar on solid substrate.
- Insulating materials (e.g. polystyrene or similar) which are covered with age-resistant polyethylene foil.

REQUIREMENTS OF SUBSTRATE

On solid substrate, for example concrete;

- Thoroughly cleaned and free of oil, grease and similar.

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- The substrate must be firm and dry (max 95% RH)
- Weak surface layers should be mechanically removed.

For floating construction on wooden substrates;

- Thoroughly cleaned.
- The base must be firmly fixed, solid and dry.
- Add 2 layers (crosswise) with age-resistant polyethylene foil.

For floating construction on insulating substrates such as Leca, polystyrene and similar;

- Fixate substrates like Leca with a slurry of CLS, to make the subfloor walk able.
- Add 2 layers (crosswise) of age-resistant polyethylene foil

For floating structure on moisture insulating substrate such as polyethylene covering;

- Ensure that the joints are well assembled before levelling.

MIXING RATIO

- 25 kg of CLS / 3,5 liter of cold water

PRIMING

Layer thickness 5-20 mm:

Prime the substrate with VD to:

- Reduce the absorption (1: 5, VD:water) (e.g. concrete floor)
- Improve adhesion (1: 3, VD:water) (e.g. levelled surfaces)

Distribute the primer evenly on the surface with a brush, paint brush or likewise. Avoid making puddles.

Layer thickness > 20 mm:

Always make a bonding slurry and use as a base. Mix 5 kg CLS with 0,5 liter water and 0,1 liter VD.

Apply the CLS on the wet bonding slurry.

RECOMMENDED METHOD OF WORKING

- Prepare the subfloor for leveling and apply the primer according to the above instructions.
- Pour CLS into cold, clean water and stir to a homogenous mixture (screed mixer, force mixer

or powerful hand mixer with spiral mixer recommended).

- Divide the screed evenly on the subfloor, minimum thickness 12 mm. For floating construction: minimum thickness is 35 mm.
- Compact and smooth the CLS
- Ensure that existing edge and movement joints remain through the screed, otherwise the screed might crack.
- Protect curing CLS screed layers from high ambient temperatures, direct sunlight and draughts.
- If the screed is ready for covering within 3 days and no covering is laid, the screed must be protected by covering with a foil. The foil should be removed 24 hours before applying the covering.
- Floor-heating cables should be switched off at least 1 day before levelling. Turn on the heat approx. 1 week after levelling and increase gradually.
- Clean tools with water.

PACKAGING

- 25 kg

STORAGE

- Store CLS in cool, dry conditions.
- Storage life 6 month (in closed packaging).
- Opened bags should be closed immediately and used up as soon as possible.

DISPOSAL

- Empty bags completely and dispose in accordance with local regulations.
- For disposal of product residues, waste water and containers with adherent product residues, follow local governmental regulations.

EMICODE

- EC 1 Plus R: very low emission Plus, regulated



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SAFETY AND ENVIRONMENT

Always make sure to use suitable gloves and goggles when handling the product.

Rinse thoroughly with water in case of skin and eye contact.

For further information, see safety data sheet

INSTRUCTIONS

All information applies to standard conditions and relates to the non-extended levelling compound.

Use relevant product data sheets when using complementary products, if in doubt, consult the manufacturer.

Requirements of relevant valid standards, guidelines and data sheets apply.

DISCLAIMER

The applicable recommendations, guidelines and safety data sheets are to be followed, together with architectural and engineering regulations.

Our recommendations are based on tests and practical experiences, however, they can only provide general guidance since we have no influence over the conditions on site, the execution of the work or the method of processing.

This product data sheet supersedes all previous editions.

Our information is based on laboratory tests and practical experience and may, as such, be considered a guide in connection with choice of product and working method. As the user's working conditions are beyond our control, we do not assume any responsibility for the results. Our responsibility covers exclusively personal injury or damage to property which actually have been proved subsequent to faults and defects in one of the products manufactured by us.

Certified according:



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