SOLTHERM LRC

Levelling and Repair Compound

PRODUCT DESCRIPTION:
- **frost resistant**
- **very good adhesion to substrates**
- **low linear shrinkage**

USE:
SOLTHERM LRC is a cement mortar suitable for:
- filling gaps and levelling irregularities between 5 and 15 mm in mineral substrates prior to thin-coat render application and installation of insulation boards in ETICS, installation of stone and ceramic tiles and screeds.
- interior and exterior use over non-deformable anhydrite and concrete substrates, masonry walls of ceramic bricks and sand-lime bricks, cellular concrete as well as on cement or lime and cement renders,
- bedding cellular concrete blocks and units for bed joints between 5 mm and 15 mm.

SURFACE PREPARATION:
The surface must be structurally sound, stable, even, clean of surface contaminants that may affect adhesion such as dust, grease, bitumen and other barrier materials. Remove any friable material such as peeling or flaking paint or plaster, loose or crumbling particles from the existing wall. Prime porous surface (particularly aerated concrete) with the primer SOLTHERM SP. Prime smooth surfaces with SOLTHERM CS. Cellular concrete blocks or units to be bedded should be even, clean and free of loose or friable particles.

PRODUCT PREPARATION:
Measure the clean water (2.75 ÷ 3.5 litre) into a suitable vessel/bucket and slowly add the mortar while mixing using a low-speed drill until a homogeneous consistency is achieved. Allow to stand for 5 minutes then re-mix. The mixture is ready to use. Do not admix except water.

APPLICATION:
Surface levelling
Apply with a stainless steel putty knife, brick trowel or finishing trowel working well into the surface. Maximum thickness of the mortar layer should not exceed 30 mm. It can be applied to a thickness of 15mm in one operation.

Bedding
Spread the material over the substrate or wall and on the side of the neighbouring blocks using a brick trowel. Place blocks in courses and press gently to position them. Remove excess mortar.

LIMITATIONS AND RECOMMENDATIONS:
- Do not apply to substrates, which are not damp-proofed against capillary action or rising damp.
- Before application, protect or mask surfaces such as windows, doors, window sills, etc.
- To smooth concrete or anhydrite screed surface use the self-levelling cement mortar BOLIX SN 20.
- Plan the surface area taking into consideration weather conditions, surface type and workforce.
- Blocks or units to be bedded cannot be damp and chilled.
- Protect from direct sunlight exposure, precipitation and wind during application operation and drying. Use scaffolding meshes.
- Low temperature, increased humidity and improper air circulation extend the drying and setting time of the mortar.

- Clean tools and hands with running water immediately after use. After drying difficulties with cleaning may be experienced. Wipe new stains off soiled surfaces with damp cloth. Hard stains may be removed only mechanically.

PRECAUTIONS:
Due to alkyd reaction of the product, avoid contact with skin and eyes. In case of eye contact, flush eyes with plenty of water and seek medical advice.

TOOLS:
- Construction bucket
- Agitator or low-speed drill (400÷500 rpm) with hoop paddle
- Stainless steel putty knife, finishing trowel and brick trowel
- Rubber mallet
- Polystyrene trowel

TECHNICAL DATA:
The following technical data are for the temperature of +23 (±2)°C and relative air humidity of 50 (±5)%. Under other conditions the technical data may vary.

Ambient and surface temperature at application and drying:	
from +5°C to +25°C	
Relative humidity at application and drying:	
up to 80%	
Density of ready mix:	
ca. 1.7 g/cm^3	
Colour:	
grey	
Grain size:	
up to 1.4 mm	
Drying time of one layer:	
1 mm / 1 day	
Working life:	
≤ 45 min.	
Reaction to fire according to PN-EN 13501-1:	
class A1	
Flexural strength according to PN-EN 998:-2	
≥ 3 MPa	
Compressive strength according to PN-EN 998:-2	
≥ 8 MPa	
Chloride content according to PN-EN 998-2:	
< 0.07%	
Vapour permeability coefficient μ according to PN-EN 998:-2	
15/35 (table value)	
Water absorption according to PN-EN 998:-2	
≤ 0.06 kg/(m²*h$^{0.5}$)	
Durability (freeze/thaw) according to PN-88/B-06250:	
Class F150	
Packaging:	
25 kg bags	
No. of containers per pallet and net weight:	
48 / ca. 1200 kg	
Shelf life:	
12 months from the date of production provided on the packaging	

NOMINAL COVERAGE:
Surface levelling
approx. 1.6 kg / m2 / 1mm of thickness. Coverage will vary with surface roughness and evenness as well as gap depth.

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Bedding

brick (wall thickness 12cm) - ca. **38** kg/m^2

brick (wall thickness 25cm) - ca. **97** kg/m^2

AAC blocks (wall thickness 24cm) - ca. **46** kg/m^2

To determine precise coverage, perform a patch test on the surface. Usage is typical usage and may vary between installers. Coverage rates quoted for products will not be guaranteed under any circumstances. The rates quoted are based on site experience but may vary due to site conditions, operator skills etc. No claim will be allowed relating to coverage of materials

STORAGE:

Store in intact containers in temp. between +5°C and +25°C. Protect from damp. Store away from the reach of children.

COMPOSITION:

Dry mixture of hydraulic binders, polymers, fine mineral fillers and modifiers.