

CASEA Casufloor AB 30 - Calcium Sulphate Semi Dry Floor Screed Binder

Casufloor AB 30 Semi Dry Screed Binder is a specially formulated natural calcium sulphate binder suitable for the production of top quality semi-dry floor screeds, simply by blending with a suitable sand and water on site. Casufloor AB 30 complies with EN 13454-1: 2004 and is CE marked.

- CA-C20-F4
- CA-C30-F6
- Very Low Shrinkage
- Reduced Drying Times
- CE Marked
- EN 13454-1: 2004
- 25kg bag - 42 bags per pallet

Field Of Application

Casufloor AB 30 Screed is suitable for floors in homes, offices, public buildings and places exposed to similar loads. Casufloor AB 30 Screed may be applied in accordance with DIN 18560, directly onto a load bearing floor, unbonded on a separating barrier (polythene), as a floating floor and is suited in conjunction with underfloor heating. Casufloor AB 30 Screed should be covered with a floor finish such as tiles, linoleum, parquet, cork or carpet. If a cement based adhesive or smoothing compound is required the surface of the screed must first be sealed using an appropriate acrylic primer/sealer.

Working Instructions

Light ventilation in the work area is necessary however, windows and openings must be closed sufficiently to avoid draughts, during and after application. Indoor and floor temperature should exceed +10°C during and after application and for one week after that.

Substrate

Casufloor AB 30 is designed for use as a bonded thick screed on concrete, as a floating screed over thermal or acoustic insulation, or as an unbonded screed on top of a plastic membrane.

Preparation and Priming

The substrate should be clean, dry, free of dust, grease and other impurities that might prevent adhesion. If it is a large area the surface should be treated by mechanical preparation by grinding or shot blasting. The surface strength of the substrate has to be at least 0.5 N/mm². Substrates must be primed. Dry and very

porous substrates must be primed twice. If Casufloor AB 30 Screed is to be applied on plastic sheeting or as a floating floor, a gap of minimum 8mm should be formed around the perimeter (walls, columns, etc.)

Mix Design

Sand should be of an approved quality and grading. Trials should always be carried out to optimize the mix design before work commences. 75kg of binder and 280kg of sand is required for a CA-C20-F4 designation and 100kg of binder and 250kg of sand for a CA-C30-F6 designation. Add clean water to achieve the desired semi-dry consistency. All materials should be adequately mixed to ensure full dispersion of materials without lumps.

Application

Casufloor AB 30 can be mixed with all common pneumatic screed pumps e.g. Putzmeister Mixocret or Brinkmann Screed-Boy. Apply, distribute and compact mixed screed evenly to the desired thickness, using a long straight-edge. When applied bonded, the minimum thickness of Casufloor AB 30 Screed should be 15mm. Unbonded should be 30mm. Floating with or without underfloor heating this should be >45mm when using C20-F4, and >40mm when using C30-F6. Do not mix more screed that can be applied within 40 minutes.

Practical Advice

Avoid draughts for at least 2 days after installation. Maximum bay size is 200m², maximum bay length 20m. Maximum aspect ratio 2:1. When used over underfloor heating, build heat gradually after 7 days of installation. Only apply screed indoors and not in wet rooms. Install dummy and expansion joints at stress points and appropriate bay size. Do not use at temperatures below +5°C or above +35°C of the substrate or the ambient temperature. Do not mix with other materials. Ensure area is sealed where there is a risk of spray water.

Storage

12 months under dry conditions.

Disposal Considerations

13.1 Waste treatment methods: Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Uncleaned packaging: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agents: Water, if necessary together with cleansing agents.

Safety

Caution. This product contains cement, which becomes alkaline when wet and may cause skin irritation. Use goggles, gloves and protecting cream. Avoid prolonged contact with skin. Avoid inhaling the dust. Wash affected area with warm water and soap. Wash eyes thoroughly and consult a physician. Do not ingest. See Health and Safety Data Sheet for further information.

Hazard Statements

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.

Precautionary Statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.

Technical Information

Application	Bed Thickness (DIN 18560)
Bonded	>15mm, <50mm *
Unbonded	>30mm
Floating	>45mm (C20-F4) >40mm (C30-F6)
Underfloor Heating	>45mm (C20-F4) >40mm (C30-F6)

*Application >50mm, apply unbonded (separation layer), or floating

Classification	CAC 30 to DIN EN 13454
Compressive Strength	C20 C30
Flexural Strength	F4 F6
Yield	75kg mixed with 280kg sand (C20-F4) – 27% 100kg mixed with 250kg sand (C30-F6) – 40%
Thermal Conductivity	λR = 1.30 W/mK

	CASEA GmbH Pontelstraße 3 99755 Ellrich Germany
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04 CASEA - 114 640 EN 13454-1: 2004 CAC 30 Calcium Sulphate Composite Binder for use internally in buildings

Reaction to fire	A1
pH value	≥ 7
Compressive strength	30
Calcium Sulphate content	≥ 50 % < 85 %
Shrinkage	≤ 0,2mm/m

