



CASEA RADDIPLUS NA RAPID Alpha Hemihydrate Screed

RADDIPLUS NA Rapid Alpha Hemihydrate Screed is a pumpable, rapid drying, high-quality screed material based on calcium sulphate. It is supplied using a pre-blended compound and is factory-produced on site. Mixed by our mobile screed factory with a special blend of CE marked aggregates, it meets the performance criteria of EN 13813: 2002. It is designed for application at thicknesses of between 20 and 75 mm. RADDIPLUS NA Rapid Binder complies with EN 13454-1: 2004 and is CE marked.

- Rapid-self-drying, allowing early floor covering
- Ready for floor covering @ 1.7% CM
- Pumpable
- Under floor heating – full encapsulation
- Smooth, laitance-free surface finish
- Reduced drying times
- CE EN 13813: 2002

Field Of Application

RADDIPLUS NA Rapid Alpha Hemihydrate Screed is suitable for floors in homes, offices, public buildings and places exposed to similar loads. RADDIPLUS NA Rapid Alpha Hemihydrate Screed may be applied as a levelling screed directly onto a load bearing floor, unbonded on a separating barrier (polythene), as a floating floor, and is particularly suited in conjunction with underfloor heating or cavity floors. RADDIPLUS NA Rapid Alpha Hemihydrate Screed should be covered with a floor finish such as tiles, linoleum, parquet, cork, carpet or a suitable coating. If a cement based adhesive or smoothing compound is required, the surface of the screed must be sealed first 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 also for one week after application.

Substrate

RADDIPLUS NA Rapid Alpha Hemihydrate Screed is designed for use as a bonded thick levelling 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. Dry and very porous substrates must be primed twice. If RADDIPLUS NA Rapid Alpha Hemihydrate Screed is to be applied on plastic sheeting or as a floating floor, a flexible perimeter insulation of minimum 10mm should be formed around the perimeter (walls, columns, etc.). Edge lengths > 30m require 20mm edge insulation.

Mixing

RADDIPLUS NA Rapid Alpha Hemihydrate Screed is produced to CE EN 13813: 2002 performance requirements by our mobile screed factory.

Application

Pumping should be carried out in sections so that a wet edge is maintained. A wide steel tampering bar should be used to assist the levelling process. When applied bonded, the minimum thickness of RADDIPLUS NA Rapid Alpha Hemihydrate Screed should be 20mm. Over underfloor heating, this should be a minimum of 25mm over the pipes (35mm over insulation board).

Disposal Considerations

Binder: 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.



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Safety

Binder: Caution. This product becomes alkaline when wet and may cause skin irritation. Classification according to Regulation (EC) No 1272/2008. **GHS05** corrosion. Signal word: **Danger**. Hazard-determining components of labelling: Cement, portland, chemicals. See CASEA Health and Safety Data Sheet for further detailed information.

Hazard Statements

H318 Causes serious eye damage

Precautionary Statements

P102 Keep out of reach of children.

P280 Wear eye protection / face protection.

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/doctor.

Underfloor Heating Commissioning

Do Not Force Dry. < 35°C water/manifold temperature for 24 hours @ 1.7% CM residual moisture content.

Technical Information

Screed Specification EN 13813: 2002	
Maximum Thickness	75mm
Minimum Thickness	Bonded: 20mm Unbonded: 30mm Domestic: 35mm Commercial: 40mm Over Underfloor heating Pipes: 25mm (BS 8204-7)
Use (External Use)	No
Use (Internal Use)	Yes
Strength Classes Available	CA-C20-F4 CA-C25-F5 CA-C30-F6
Partial load-bearing capacity	approx. 36 hours / 1.5 days depending on thickness and drying conditions
Shrinkage (28 days)	< 0.1 %
Flow Rate	260mm
Hardening Time (before foot traffic)	10 hours (under ambient conditions)
Floor Covering Residual Moisture Content (dependent on temperature and site conditions)	< 1.3% CM for timber, parquet flooring < 1.7% CM for all other floor coverings Contact SMET technical team for thicknesses over 75mm
Recommend water content	16 - 17 %
Pot life	Maximum 40 minutes depending on ambient conditions
Reaction To Fire	A1 Non Combustible



CASEA
WORKING FOR THE FUTURE

Smet Building Products Limited
93A Belfast Rd | Newry | Co. Down | BT34 1QH
T: +44 (0)28 3026 6833 F: +44 (0)28 3026 7619
E: info@smetbuildingproducts.com

