

InsuFloor E 7000

3-PART EPOXY SCREED.

PRODUCT DESCRIPTION

• Insufloor E 7000 is a coloured three-component solvent free epoxy resin-based mortar for patching and screeding industrial floors subject to heavy traffic. All components are prebatched in the correct mixing ratio.

USES

• Insufloor E 7000 may only be used by experienced professionals.
• Epoxy screeds with a layer thickness of 5-8 mm in areas requiring resistance to heavy mechanical wear such as:

- Warehouses
- Machine shops
- Workshops
- Chemical plants
- Water treatment plants
- Storage areas
- Plant rooms
- Pharmaceutical plants
- Steel works

CHARACTERISTICS / ADVANTAGES

- Very high abrasion resistance
- Very high impact resistance
- High compressive and flexural strength
- High bond strength
- Efficient and easy application

PRODUCT INFORMATION

Chemical Base	Epoxy	
Packaging	Part A:	2 kg containers
	Part B:	1 kg containers
	Part A+B:	3 kg unipacks
	Part C:	30 kg bag
	Part A+B+C:	33 kg ready to mix units
Appearance / Colour	Resin - Part A	transparent, liquid
	Hardener - Part B	brownish, liquid
	Quartz sand - Part C	grey, powder
		Grey

InsuFloor E 7000

3-PART EPOXY SCREED.

Shelf Life	12 months from date of production		
Storage Conditions	The product must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C.		
Density	Part A:	~ 1.10 kg/l at +23°C	(DIN EN ISO 2811-1)
	Part B:	~ 1.02 kg/l at +23°C	
	Mixed mortar:	~ 2.2 kg/l at +23°C	

Solid content by weight ~100 %

TECHNICAL INFORMATION

Compressive Strength	~70 - 80 N/mm ² (7 days / +23°C)
Tensile Strength	6 - 8 N/mm ²
Tensile Adhesion Strength	> 1.5 N/mm ² (failure in concrete)

APPLICATION INFORMATION

Mixing Ratio	Part A : part B : part C= 0.660 :0.340 : 10 (by weight)
Consumption	~2.2kg/m ² /mm

Ambient Air Temperature	+10°C min. / +30°C max.
Relative Air Humidity	80 % r.h. max.
Dew Point	Beware of condensation! The substrate and uncured mortar must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the mortar finish.
Substrate Temperature	+10°C min. / +30°C max.
Substrate Moisture Content	< 4 % pbw moisture content.

Pot Life	Temperatures	Time
	+20 °C	~ 40 minutes
	+25 °C	~ 30 minutes

Curing Time	Before applying Insufloor coating on Insufloor E 7000 allow:		
	Substrate Temperature	Minimum	Maximum
	+30 °C	12 hours	1 day
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.			

InsuFloor E 7000

3-PART EPOXY SCREED.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrates must be sound with sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. If in doubt, apply a test area first.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

MIXING

• Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved. When parts A and B have been mixed, mix the quartz sand with part A and B for a further 2 minutes until a uniform mix has again been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimize air entrapment.

Mixing Tools

- InsuFloor E 7000 (part A + B) must be thoroughly mixed using a low-speed electric stirrer (300 - 400 rpm) or other suitable equipment.
- For InsuFloor E 7000 (part A + B + C) mortars use a forced action mixer of rotating pan, paddle or tough type.

APPLICATION

Before application, make sure the surface is moist. For strongly absorbent substrates apply a primer coat. The primer has to be cured tack free before the bonding bridge is applied.

Primer:

Make sure that a continuous, pore free film covers the substrate.

Apply InsuFloor E 4001 by brush, roller or squeegee.

*Preferred application is by using a squeegee and then backrolling crosswise.

Bonding bridge / impregnation:

Make sure that a continuous, pore free film covers the substrate.

Apply InsuFloor E 4001 by brush, roller or squeegee.

InsuFloor E 7000

3-PART EPOXY SCREED.

Mortar screed:

- Apply the mortar screed evenly on the tacky bonding bridge, using levelling boards and guide rails as necessary.
- After a short waiting time compact and finish the mortar with a trowel or Teflon coated power float (usually 20 - 90 rpm). Power floats can only be used on mortar layers > 8 mm.

CLEANING OF TOOLS

- Clean all tools and application equipment with Thinner immediately after use. Hardened and/or cured material can only be removed mechanically.

LIMITATIONS

- Do not apply InsuFloor E 7000 on substrates with rising moisture.
- InsuFloor E 7000 mortar screed is not suitable for frequent or permanent contact with water unless sealed.
- For exact colour matching, ensure the quartz sand in each area has the same colour (sand is a natural product and colour differences can occur).
- Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

NOTE

- Field service, where provided, does not constitute supervisory responsibility. For additional information, contact Insumat's representative.
- Insumat reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY STATEMENT

- All products manufactured by Insumat Egypt, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, standard.
- * Properties listed are based on laboratory-controlled tests.
- Actual measured data may vary due to circumstances beyond Insumat's control.

Manufacturing Insulating Materials and Products Company