



Insulaster is a ready to use floor screed and plaster material designed to provide insulation and a lightweight screed solution for sunk areas where a lot of weight cannot be placed over the concrete slab. Insulaster Provides thermal fire and acoustic insulation together. **Insulaster** can be applied to both interior and exterior surfaces of old and new buildings allowing them to breathe. **Insulaster** is ideal for the following places:

- ✓ Commercial buildings.
- ✓ Residential buildings.
- ✓ Public buildings.
- ✓ Industrial buildings.
- ✓ Institutional buildings.
- ✓ Fire escape zones and equipment rooms.

ADVANTAGES

- ✓ Long lasting.
- ✓ Easy application.
- ✓ Protection from thermal shocks.
- ✓ Saves energy.
- ✓ Natural and harmless to environment.
- ✓ Ready to use.
- ✓ Fire Resistant (Fire Resistance property Mentioned in technical Table)
- ✓ Provides superior sound proofing.
- ✓ Does not allow heat transfer thus not affected by hot or cold temperatures.
- ✓ Allows the building to breath naturally.
- ✓ Does not have emission of greenhouse gases.

SURFACE PREPARATION

For hot climatic conditions, the surface may be dampened with potable water. All loose particles and oil shall be cleaned off the surface prior to application. It is recommended to have a proper cementitious waterproofing system implemented over a new RCC surface to make it watertight (For Example: **Water Guard 491 From Ressichem**).

Note: Over RCC and smooth concrete surfaces, a base coat of **Ressi BRC 7000** may be used if required.



PRODUCT PREPARATION

Since Insulaster can be applied both as a floor screed and a plaster, the water demands for both the applications will vary. Depending on the ambient temperature of the applications, the water demand may also be adjusted to accommodate working times of the materials. Please refer to the mixing ratios in the technical table. It is recommended to prepare an onsite trial to determine the optimum water ratio for the application requirement. The mortar powder and light weight aggregate should be added over the water to avoid settlement of the material at the bottom of the mixing container. The mixing container should be uncontaminated, non-corrosive and clean using only potable water. It is recommended to use an automatic drill machine mixer for the mixing of **Insulaster** with water.

APPLICATION

With Proper surface preparation, conventional plastering and screeding techniques can be used for its application. It is essential to have proper levelling dabs to determine the thickness of the materials both on walls and the floor surface. The ideal surface for the application of **Insulaster** is RCC Surface and it is recommended to have a prepared masonry or concrete surface ready to plaster for the application of Insulaster. All loose particles such as oil grease and any other particles that may cause bonding issues need to be cleaned off the surface prior to the application of **Insulaster**. It is also recommended to dampen the surface if the ambient temperature is exceeding 35°C and the application surface feels heated.

CURING

No curing required in General, however if temperatures exceed 35°C it is recommended to mist cure for 3 days once the material has initially hardened after 48 Hours.

SHELF LIFE

Expiration of **Insulaster** is 12 Months after production under dry and sheltered conditions. High levels of humidity and moisture may reduce shelf life.

HEALTH AND SAFETY

Insulaster is regarded as non-hazardous for transportation. Do not re use bags and containers and dispose them off as per local rules and regulations. Gloves and suitable masks can be worn during application.



TECHNICAL DATA

Property	Test Method and / or compliance standard	Result
*DRY DENSITY	BS EN 1015-10	600 ± 100 kg/m ³
*THERMAL CONDUCTIVITY	PCSIR Lab developed Method	< 0.03 W/m.k
*COMPRESSION STRENGTH	BSEN 998-1 & BSEN 1015-11	CS I
*BOND STRENGTH	BSEN 998-1 & BSEN 1015-12	0.1 N/mm ²
*WATER ABSORPTION	BSEN 1015-19 & BSEN 1015-18	(W2) (<0.2Kg/m ² min ^{1/2})
*FIRE ENDURANCE	PCSIR Lab developed Method	538°C for 5min : 14.6%
APPLICATION WATER	BSEN 1015-3	704°C for 10min : 6.5%
*READINESS FOR PAINTING	Internal Lab developed Method by Manufacturer @ 24°C	Drying time 72 hours at appropriate environment
*RETENTION PERIOD	Internal Lab developed Method by Manufacturer	06 months at appropriate environment
APPLICATION TYPE	Internal Lab developed Method by Manufacturer	Hand Application
*WATER APPLICATION	Internal Lab developed Method by Manufacturer	36% ±10%

*Typical results under laboratory conditions.

SPECIAL NOTE

Before the application of any product like wall putty, paint, wallpaper, decorative plaster, or any other coating, **Insulaster** must be dried out completely with no moisture content inside of it.



PACKAGING

Insulaster is available in two parts:

Part A 50 KG Powdered Bag

Part B 802g Lightweight high-volume flame-retardant filler (EPS beads).



PRINTED BAG
Part A



UNIVERSAL BAG
Part B

NOTE:

If printed bags are not available, neutral bags with label. Lot number and manufacturing date to be stamped at the back of each bag.