# Nafufill® GSE

**(Formerly Known As Zentrifix GSE)**

## Fine concrete repair mortar for manual application.

### Product properties

- Polymer modified, hydraulic fine repair mortar
- One-component
- Hand application by trowel or float
- Suitable for thickness of 6 to 50 mm
- Excellent adhesion
- Stable on walls and overhead
- Ideal application and hardening times

### Areas of application

- Fine repair of small and large areas in concrete

### Application

**Nafufill® GSE** is a single component ready to use fine repair mortar, which can be applied by various means explained below.

**Advantages**
**Nafufill®GSE** has excellent adhesion to the substrates and is stable for overhead as well as wall applications.

**Instructions for use:**
The surface must be clean and free from all loose particles, dust oil and other contamination. A substrate pull-off strength > 1.5 N/mm2 is required.

The substrate must have sufficient roughness, e.g. sound aggregates should be visible. Before application of **Nafufill ® GSE**, the bonding coat, **Nafufill ® KMH**, should be brushed intothe pre-wetted surface. The fine repair mortar, **Nafufill ® GSE** should then be applied "fresh – on – fresh"to the bond coat by trowel or float.

**Nafufill ® GSE** is a single-component mortar, which is mixed with water. The dry mortar is slowly added to the water and mixed thoroughly until a homogenous, lump-free mortar is achieved. 100 p.b.w. **Nafufill ® GSE** needs 13-14 p .b .w. water, hence, for a 30 Kg sack of **Nafufill ® GSE** approximately 3.9 – 4.20 Litres of water is required. As with all cementitious products, the quantity of water added may vary slightly.

**Nafufill ® GSE** can either be applied by hand or with floats and trowels. It is suitable for layerthickness of 6 – 50 mm. If the thickness is >25 mm, then,should be applied in two layers. The second layer shouldbe applied when the first layer has stiffened sufficiently but is still green. If dry, the first coat has to slightly- prewetted and a bond coat with **Nafufill ® KMH** has to be applied.

Working time is approximately 30 min at 30°C and 50% relative humidity. Hardened or hardening material should not be re-mixed or applied. Also, hardening material should not be re-worked, other-wise cracks may occur.

**Nafufill® GSE**, should not be applied at temperatures below + 8°C (air and substrate). The temperature should not be allowed to fall below + 8°C during curing. Care must be taken to ensure that **Nafufill® GSE** is suitably protected to prevent it from drying out too rapidly, especially from the effects of direct sun and wind. As with all cementitious materials, rain or similar occurances can cause slight surface blemishes.

Before application of further coatings loose particles must be removed to ensure effective bonding between the applied surface and the topcoat.

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| Technical Data for Nafufill® GSE | | | |
|---|---|---|---|
| **Characteristic** | **Unit** | **Value** | **Comments** |
| Appearance | NA | Grey Powder | |
| Minimum Application Temp | °C | +8 | |
| Added Water | Liter | 3.9-4.2 | Per 30 Kg Bag |
| | % | 13 - 14 | By wt of Powder |
| Thickness Range | mm | 6-50 | |
| Flow | mm | 160-180 | EN 13395-1 |
| Minimum application temperature | °C | + 8°C | |
| Pot life | minutes | 20 | |
| Maximum Grain Size | mm | Approx. 1.18mm | IS 2386 Part I |
| Yield | Liters | Approx.16 | |
| Wet Gross Density | g / L | Approx. 2000 | |
| Compressive Strength | N/mm² | After 24 Hrs=10N/mm²<br>After3Days=15 N/mm²<br>After 7 days=20 N/mm²<br>After 28 days=30 N/mm² | Asper ASTM C109 Using 50mm Moulds |

| Product Characteristics for Nafufill® GSE | |
|---|---|
| Colour | Grey |
| Shelf life | 6 months |
| Delivery | 30 kg Bag |
| Storage | Protect from heat and frost |
| Disposal | Packs must be emptied completely. |

**Note:**The information on this data sheet is based on our experience and correct to the best of our knowledge. It is however not binding.It has to be adjusted to the actual structure ,application purpose and to the local conditions. Our data refers to the accepted engineering rules which have to be observed during application. Provided this we are liable for the correctness of this data within the scope of our terms and conditions of sale -delivery and Services. Recommendations of our employees which may differ from the data contained on the TDS are binding only if given in written from.The accepted engineering rules must be followed at all time E. & O.E.

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