

May 2019 Version

# BestRefit C40

Fine Concrete Surface Repairing mortar

**Description:** BestRefit C40 is a cement-polymer chemical-based repair mortar. This is a specially formulated Silicafume-containing component with optimized engineering features that are easy, fast application, saving considerable time and effort.

**Recommended for:**

*BestRefit C40 is recommended for use such as:*

- Repairing and repairing small, thin defects on a concrete surface, natural stone, plaster ...
- Creating flatness, and aesthetics for exposed decorative structures ... without covering.

**Advantages:**

- Safe, non-toxic, non-polluting environment;
- One component (just mixed with water) should be easy to use;
- High compressive strength and bonding strength, good shrinkage compensation, does not cause cracking.
- Does not contain Cl<sup>-</sup>, does not cause corrosion to reinforcement.
- Minimize the generation of moss, and mold.
- Suitable for hot and humid weather conditions in Vietnam.

## SPECIFICATION

<b>Supply form:</b>	Fine powder, natural gray
<b>Packaging:</b>	25 kg/bag.
<b>Storage condition:</b>	Unopened bag and in dry and cool places.
<b>Shelf life:</b>	At least 12 months from the produced date in the right storage conditions.
<b>Chemical composition:</b>	Selective cement, aggregate, polymer, and specialized additives.
<b>Chloride content:</b>	Not detected.
<b>Bulk density:</b>	1.25 ± 0.01 kg/liter (dry mortar).
<b>Specific density:</b>	2.00 ± 0.0 1 (kg/liter) (mortar mixed with water).
<b>Mixing water ratio:</b>	20.0 ± 1.0% (by weight).
<b>Consumption:</b>	01 bag of 25 kg: About 15 liters of fresh mortar. 66.5 bags of 25 kg: About 1 m <sup>3</sup> of fresh mortar.
<b>Thickness:</b>	Max : 5 mm / layer.

**Performances:**

Sample age (days)	01	03	07	28
<b>Compressive strength (*) (MPa)</b>	≥ 15.0	≥ 25.0	≥ 35.0	≥ 40.0
<b>Flexural strength (**) (MPa)</b>	≥ 4.0	≥ 4.5	≥ 5.0	≥ 5.5

(\*) ASTM C349-02 (\*\*) ASTM C348-02

**Application time:** Maximum 90 minutes from mixing at an ambient temperature of 32° C

**INSTALLATION**

**Surface preparation:** The surface must be clean, solid, and free from grease or impurities and the surface must be saturated with water before application.

**Mixing:** Accurately weigh the amount of clean water (ratio of water mixed is 20 ± 1% compared with the weight of powder) into a container with appropriate capacity. Slowly add the powder to the water while the paddle is still rotating (the speed of the paddle is about 300 ÷ 400 rpm) for about 5 minutes until the mixture becomes evenly flexible (no lumps). Let the mixture have a short rest for 5 minutes then stir again before application.

**Applying:** Use a trowel, steel scrub, or other suitable tools to plaster the product onto the concrete surface in the repaired position and tighten it repeatedly until it reaches the required level of flatness and aesthetics.  
Do not use the product after the application time has expired.

**Curing:** Curing procedures should be ensured strictly as other cement-based products. After application, use specialized curing compounds such as BestCure AC015, BestCure SS015 or other appropriate methods as soon as possible to avoid rapid water loss that affects the product quality.

**Cleaning:** Clean tools and equipment with water before the mixed grout hardens. Once the product has cured, it can only be cleaned with BestClean PA022 specialized cleaning solution or a suitable mechanical method.

**Safety:** BestRefit C40 is alkaline like normal cement and can cause skin irritations to persons with sensitive skin. Wear gloves and masks while handling the product. In case of accidental eye contact, wash with fresh water and seek medical advice immediately.

**Disclaimer:** *The technical information and application instructions in documents of BESTMIX are based on BESTMIX's current knowledge and practical experience. The information here only describes the general nature of the product, so users should test the product for each purpose. BESTMIX has the right to change features of our the product, user must always refer to the latest technology product.*

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