

## JAZE PUTTY – HF 45

High Performance, High Strength, Non-shrink, , Single component fine quality putty, Fairing coat and repairing agent for good stability. Cosmetic mortar for concrete surfaces.

### Product Description:

JAZE PUTTY – HF 45 is ready-to-use high performance, high strength, non-oxidized, non-shrink, acrylic polymer modified Single component fine quality putty, fairing coat and cosmetic repair mortar agent for good stability which requires only the addition of water to produce non-shrink putty. It contains selected Portland cements, silica fume, shrinkage compensating materials and modifiers that permit to be applied in a 1 to 6 mm thickness without any problems. It specially formulated for civil and mining applications on horizontal and vertical & overhead surfaces. JAZEPUTTY HF-45 can be used as a skim coat prior to the application of protective coatings.

### Uses:

JAZE PUTTY – HF 45 is formulated to be used as high performance, high strength, non-oxidized, non-shrink, Single component fine quality fairing coat and cosmetic mortar for good stability for civil & mining applications in:

- As a fairing & skim coat to repair any concrete surface defects and to cover good blemishes in concrete surfaces such as slight honeycombing, blowholes, defects caused by sand runs, patch repairs, shutter movement and grout loss.
- Structural repair materials for the underside of bridge decks, bridge piers & beams.
- Preparatory treatment to concrete to receive a thin film protective coating.
- To produce a uniform surface over repaired areas.
- Repairs of tunnels, sewer pipes, drains, seal walls and culverts.
- Repair of parking garages, ramps, beams and dams.
- Tunnel linings and embankment stabilization.
- All similar works.

### Advantages:

- Easy to mix and to apply.
- Shrinkage compensating.
- Overcoat able.
- Excellent adhesion to concrete.
- Flexible.
- Excellent impact & abrasion resistant.
- Non-oxidized.
- Smooth, easily produce finish.
- Excellent resistance to freez/thaw action and carbonation.
- High mechanical properties.
- Low permeability ensuring durability.
- Reduces ingress of water borne salts, such as chlorides and atmospheric/chemical attack.
- Non-toxic and does not contain any harmful ingredients.
- High early and ultimate strengths.
- Chloride and nitrate free.
- High bond strength to concrete and steel.
- Heat resistance properties.



## Technical Properties:

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|--|---------------------------------------|
| <b>Appearance</b>                                | available in Grey and White color     |
| <b>Mixing Ratio (Water to powder)</b>            | 7 Liters of water to 20 kgs of powder |
| <b>Yield</b>                                     | 17.5 liters                           |
| <b>Plastic density @35 °C</b>                    | 1700 kg/m <sup>3</sup>                |
| <b>Setting Times @ 35 °C</b>                     | 45 minutes                            |
| <b>@ 50 °C</b>                                   | 30 minutes                            |
| <b>Compressive Strength (N / mm<sup>2</sup>)</b> |                                       |
| After 24-hours                                   | 15                                    |
| After 7-days                                     | 18                                    |
| After 28-days                                    | 24                                    |
| <b>Bond Strength</b>                             | 2 N/mm <sup>2</sup>                   |
| <b>Tensile Strength</b>                          | 8 N/mm <sup>2</sup>                   |
| <b>Chalking</b>                                  | Nil                                   |
| <b>Layer Thickness</b>                           | Minimum: 1 mm    Maximum: 6 mm        |
| <b>Application Temperature</b>                   | 5 °C to 70 °C                         |

## Guide for Applications

### Surface Preparation:

All surfaces shall be sound, clean and free from dust, oil & grease and any contaminants that may affect the bond between the product and substrates.

### Mixing:

When mixing small quantities by hand add 3 parts of JAZEPUTTY HF-45 WITH 1 part of water. In normal conditions when mixing 20 kg of JAZEPUTTY HF-45 add 7 liters of water slowly and mix thoroughly with mixing paddle of speed 400-500 rpm until homogeneity is achieved.

### Application:

After thoroughly mixing JAZEPUTTY HF-45 with water, apply it on the moistened wall surface from bottom to upward direction uniformly with the help of putty application blade. This would ensure less wastage and proper finish.

### Curing:

JAZE PUTTY – HF 45 is compatible with all curing agents and water. There is no need of curing in moderate temperatures. In cold conditions, the finished application must be protected from freezing.

### Cleaning:

All equipment & tools shall be cleaned with water after work immediately. Cured materials will be cleaned mechanically.

### Packaging:

JAZE PUTTY – HF 45 is supplied in well sealed 20-Kg packs.



**Storage & Shelf-life:**

JAZE PUTTY – HF45 shall be stored in normal conditions away from any extreme temperatures, or any source of moisture. 12-monthes if stored properly in well-closed containers.

**Health & Safety:**

- JAZE PUTTY – HF 45 is non-toxic, non-hazardous during handling, storage and use, but dust mask and gloves are recommended.
- For Ecology: Do not dispose directly to water or soil, re-use it if possible or burry it in landfill in accordance with the National regulations.
- Splashes on skin will be washed with water and soap.

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**JCC CONSTRUCTION CHEMICALS**

The information herein is general information to assist our customers in determining whether our products are suitable for their specific applications. Our products are intended for sale to commercial and industrial customers. We require that customers should inspect and test our products before use to satisfy themselves as to the content and suitability for the application they intend to use our products for.

JCC endeavors to ensure that any advice, recommendation, specification of information in accurate and correct manner.