

# DR. FIXIT KRYSTALLINE

## CRYSTALLINE WATERPROOFING FOR CONCRETE SUBSTRATES

### Description:

**Dr. Fixit Krystalline** is cement for waterproofing as high quality crystallization type. It be easy to use, just mix with clean water and applies on concrete surfaces. It will be penetrate into the concrete and resulting crystals will enter the porous or small cracks on the concrete surface. Dr. Fixit Krystalline to prevent water permeability and can prevent both positive and negative permeability

**Dr. Fixit Krystalline** is completely dry. If it exposed to moisture, it can be reused to create crystals. Making it able to protect the surface for a long time

### Area of Application

- Reinforced concrete water tank , lift Well, concrete foundation, retaining wall, underground structure, Basement, and terrace

### Rate of Uses

\* **Theoretical consumption without allowance for loss.**

| Rate of Uses         |                     |             |             |                                  |                                |
|----------------------|---------------------|-------------|-------------|----------------------------------|--------------------------------|
|                      | Kg / m <sup>2</sup> |             |             | m <sup>2</sup> /Gallon<br>(4 kg) | m <sup>2</sup> /Bag<br>(20 kg) |
|                      | Standard            | At Least    | At Most     |                                  |                                |
| 1 Coat               | 0.65                | 0.60        | 0.70        | 6                                | 30                             |
| 2 Coats              | 0.65                | 0.60        | 0.70        | 6                                | 30                             |
| <b>Total 2 Coats</b> | <b>1.30</b>         | <b>1.20</b> | <b>1.40</b> | <b>3</b>                         | <b>15</b>                      |

### Method of Application

**1. Installation with concrete polishing method:** for new concrete floors only concrete floor

- After pouring new concrete and then adjust the level. It waits until the concrete is hard to walk up to 6-10 mm deep. The concrete surface must be free from greasy water from concrete.
- Sprinkle **Dr. Fixit Krystalline** by hand or machine before the final scrub
- Always sprinkling **Dr. Fixit Krystalline** 2 times by sprinkling each time in a perpendicular direction.
- Dr. Fixit Krystalline** absorbs water from the concrete surface. Then began to scrub
- After the concrete is initially solidified can be cured by carpet with clean water After 48 hours installation. It can be cured by water retention.

### 2. Surface preparation for existing concrete substrates

- Always surface sound, clean and free from dirt, laitance, loose particles and paints. It is removing by mechanical grinding, sandblasting, or high pressure washer cleaning, or suitable mechanical means.
- Stop active water leakages using Dr. Fixit Instant Leak Plug, for severe infiltration.
- All crack and holes should be filled with **Dr. Fixit Krystalline** 7 parts mix with 1 part of water.
- Substrate should be reach a "saturated surface dry" (SSD) condition (damp, without standing water)

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### 3. Product preparation:

- Mix **Dr. Fixit Krystalline** powder to water in ratio **Dr. Fixit Krystalline 100g per Water 40 g (2.5:1)** for waterproofing purpose.
- Always mix powder to water and stir it well to obtain a lump free mixture. Mix only quantities to be used within 30 minutes. Mix **Dr. Fixit Krystalline** mechanically with clean water to a thick consistency.

### 4. Application

- Apply mixed of **Dr. Fixit Krystalline** with a trowel or brush, in rate of 1.3 kg./m<sup>2</sup>
- Apply a second coat after 3 to 6 hours at the right angles of the first coat.

### 5. Curing

- **Dr. Fixit Krystalline** shall be moisture cure for minimum 2-3 days & protected from rain & direct sunlight or light traffic for minimum 2 days after application
- Heavy traffic should be avoided until the surface has hardened, at least 5 days after application.
- Back filling can be carried out after 36 hours of application of **Dr. Fixit Krystalline** (Backfill material shall be moist & not contain rocks or large aggregates.)
- Water retaining structures, can be carefully filled with water 7 days after application.
- Potable water tanks should be thoroughly rinsed with potable water prior to being placed inservice.

### Precautions & Limitation

- Application can be done under normal temperature conditions.
- Heavy traffic should be avoided until the surface is hardened for at least 5 days.
- Finishes containing portland cement may be applied over **Dr. Fixit Krystalline** after 3 to 4 days.
- Any paint or coating should be applied after 28 days only, over **Dr. Fixit Krystalline** application, after thorough wire brushing, washing & removing any **Dr. Fixit Krystalline** residual on surface.
- **Dr. Fixit Krystalline** has a high pH, when mixed with water. Use protective gloves and clothing & goggles for eye protection.
- Not recommended over moving joints and structures subjected to movements.
- Do not apply on dry substrate.

### Technical Information

| Properties                      | Standard/Test Method | Test Result                       |
|---------------------------------|----------------------|-----------------------------------|
| 1. Color                        | -                    | Grey Powder                       |
| 2. Bulk Density                 | -                    | 1.25                              |
| 3. Water Pressure Head          | -                    | Up to 150 m head                  |
| 4. pH when mixed water          | -                    | 11 ± 1                            |
| 5.Depth of Penetration of water | BS EN 12390-8:2009   | 32.61%                            |
| 6. Practical size               | -                    | 40 - 150 micron                   |
| 7. Chloride ion penetrability   | ASTM C1202-19        | 2381.30 Coulombs (Moderate Level) |

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## CRYSTALLINE WATERPROOFING FOR CONCRETE SUBSTRATES

### Packaging

- Dr.Fixit Krystalline 20 kg./bag
- Dr.Fixit Krystalline 4 kg./can

### Storage

- 12 month storage in sealed container and room temperature

### Health & Safety Precautions

- Non Flammable.
- Avoid contact with skin and eyes.
- Wear protective gloves and eye protection when applied.

### Disclaimer

The product information and the recommendations relating to the application and end-use of Dr.Fixit products, are based on Dr.Fixit's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Dr.Fixit's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Dr.Fixit reserves the right to change the properties of its products without notice, so the company does not assume liability of any legal from this product information.



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