

# Dr. Fixit FiberTite



## HIGH PERFORMANCE ROOF WATERPROOFING PREFORMED MEMBRANE BASED ON KEE TECHNOLOGY

### Description

Dr. Fixit FiberTite is single ply preformed waterproofing membrane with 4-layer technology having densely knitted fibre mesh and a unique adhesive coat that saturates the fibre and then forms a bond with the back and face coats based on the KEE formula. highly durable if compared with PVC or TPO, even at half thickness.

KEE (Ketone Ethylene Ester) is a solid, flexible, high-molecular ingredient ideal for thermoplastic processing. It is applied to both sides of the membrane and offers exceptional UV and chemical resistance and helps it to remain stronger and more flexible with age if we compare with other pre-formed membranes for similar applications.

Dr. Fixit FiberTite Roofing Membranes are constructed using high tenacity/heavy weight yarns to create a base fabric reinforcement to impart superior puncture, tensile and tear resistance properties. The base polyester fabrics are primed with a unique and proprietary adhesive coat that lays the foundation to physically bond the KEE coatings to the "fiber" to maximize seam strength and overall membrane performance.

36 mil FiberTite is was used as the benchmark membrane for the development of ASTM D 6754-15 Standard Specification for Ketone Ethylene Ester (KEE) Based Sheet Roofing.

### Approvals & Certifications

- FM Global Approval
- Underwriters Laboratory approvals
- UL Approval for Fire Resistance
- BBA Certified.

### Features and Benefits

- Over 30 yrs of proven track record
- Excellent mechanical properties
- Excellent chemical resistance
- Excellent Grease and oil resistant
- Compatibility with insulation materials
- UL approved for fire resistance
- Non winking fabric
- Asphalt Compatible
- Wind resistant
- Hail resistant
- Low life cycle cost compared to PVC/TPO
- Global references

### Areas of Application

Dr. Fixit FiberTite can be proposed for Metal and Concrete roofs in various segments as mentioned below.

- Processing plants
- F&B
- Dairy
- Electronics
- Automobiles
- Electronics
- Chemical & Petrochemical Plants
- Data Centre
- Airport & Roof replacement work etc



## Method of Application

Dr. Fixit FiberTite roofing systems can be installed by mechanically fastening the membrane with suitable fasteners and stress plates or adhering the membrane using recommended bonding adhesive to pre-approved substrates. Field seaming of the membrane is accomplished by fusing the thermoplastic membrane with conventional hot air welding equipment.

Please refer Dr. Fixit FiberTite detailed application method statement.

| PROPERTY (ASTM D6754-15)                                  | TYPICAL VALUES                 | TEST METHOD                             |
|---|--------------------------------|---|
| Thickness   | 0.9 mm ± 0.1 mm                | ASTM D 751                              |
| Breaking Strength   | 1499 N                         | ASTM D 751 (Procedure B-Strip)          |
| Elongation at Break                                       | 18 %                           | ASTM D 751 (Strip) / ASTM D412          |
| Tear Strength   | 445 N                          | ASTM D 751 (Procedure B - Tongue Tear)  |
| Linear Dimensional Change                                 | 1.3 %                          | ASTM D 1204                             |
| Fabric Adhesion   | 3330 N/m                       | ASTM D 751                              |
| Retention of Properties after Heat Aging                  |                                | ASTM D 3045 - 176°F/56 days             |
| Breaking Strength, strip                                  | 90 %                           |   |
| Elongation at Break, strip                                | 90 %                           |   |
| Low Temperature Bend after Heat Aging                     | -30                            |   |
| Low Temperature Bend                                      | -30                            | ASTM D 2136 (°f)                        |
| Change in Weight after Exposure in Water max. (%)         | 6 %                            | ASTM D 471 158°F (166 h, one side only) |
| Factory Seam Strength                                     | 1955 N                         | ASTM D 751 Grab Method                  |
| Hydrostatic Resistance                                    | 4.8 Mpa                        | ASTM D751                               |
| Static Puncture Resistance                                | pass                           | ASTM D 5602 (99 lbf)                    |
| Dynamic Puncture Resistance (J)                           | 10                             | ASTM D 5635                             |
| Accelerated Weathering Practice (Xenon) <sup>1</sup>      | >5000 hr                       | ASTM G 155                              |
| cracking (7x magnification)                               | none                           |   |
| crazing (7x magnification)                                | none                           |   |
| Fungi Resistance Sustained Growth Practice                | no growth                      | ASTM G 21( 28 days)                     |
| Discoloration   | none                           |   |
| Abrasion Test   | 1,500 cycles                   | D 3389 H-18 wheel / 1,000 g load        |
| ADDITIONAL PHYSICAL PROPERTIES                            |                                |   |
| Tensile Strength  | 8500 psi<br>40 Mpa             | ASTM D882<br>ASTM D412                  |
| Breaking Strength   | 450 lbs                        | ASTM D751, Grab Method                  |
| Puncture Resistance                                       | 350 lbs                        | ASTM D751, Bursting Strength            |
| Water Vapor Transmission                                  | 1.3 (gm/m <sup>2</sup> /24hrs) | ASTM E96 proc. A                        |
| Shore A Hardness  | 87                             | ASTM D2240                              |
| Flame Resistance  | Pass                           | MIL-C-20696C / Type II Class 2          |
| Oil Resistance (No swelling, cracking or leaking)         | Pass                           | MIL-C 20696C                            |
| Hydrocarbon Resistance (No swelling, cracking or leaking) | Pass                           | MIL-C-20696C                            |
| High Temperature Dead Load (50 lbs, 160°F, 4 hrs)         | Pass                           | ASTM D751                               |



### Precautions & Limitations

- Product is approved for uses only those specifically detailed in this product data sheet. Contact Pidilite Technical Services where any other use is anticipated or intended.
- Technical properties may vary by 5% due to practical challenges like variation in UTM machines, rate of loading, sample preparation, thickness measurement and other manual error. Contact Pidilite Technical services in such situations.

### Packaging

2.5 Mtr x 36 mtr roll

### Shelf Life & Storage

The shelf life is typically 24 months if stored as per the recommendations in a covered and secured storage space.

### Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals



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