



Series: SDHF0009
Month: April 2017
Supersedes all earlier TDS

HIFLEX

ULTRATECH

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TECHNICAL DATA AS PER RELEVANT IS AND ASTM STANDARDS

| | |
|------------------------------------|---|
| Bulk density - powder component | 1100-1200 Kg/cum |
| Solid ratio - liquid component | 50-55% |
| Type of polymer | Acrylic polymers |
| Mix ratio by weight | 1 part of liquid to 1.4 parts of powder. |
| Elongation % ASTM D 412 | Greater than 100% @ 50 Kg / Sq.cm @ 1 mm DFT |
| Pot life | 2 hours |
| Type of application | By brush |
| Coverage | 17-18 Sq.ft. @ 1 mm DFT per Kg of combined weight of the product. |
| Thickness of layer | 0.4-0.5 mm DFT per coat |
| Water curing | Nil |
| Wastage | Negligible |
| Final finish | Smooth breathable coating |
| Water permeability test (DIN 1048) | Up to 7 bar positive side water pressure |
| Pull out adhesion (ASTM D 4541) | Greater than 0.3 N/Sq. mm |
| Chalking | Nil |
| Appearance of final mix | Grey Colour |
| Water ponding | To be carried out for 72 hours only after proper hardening of the coating, 3 to 4 days subsequent to 2nd coat of application. |

Note

- UltraTech SEAL & DRY - HIFLEX Waterproofing Specifications & Method statement needs to be strictly followed to derive the complete product performance
- The technical data provided in this technical data sheet is as per our internal lab testing and may vary as per the actual method of application at sites
- Care to be taken to avoid thickness of application greater than 0.5 mm in each coat to avoid any material disassociation especially in high undulated surfaces
- Consult UltraTech Building Products Division Technical Services Cell for any further technical assistance

Packaging

12 Kg, 48 Kg

Shelf Life

UltraTech SEAL & DRY - HIFLEX has a shelf life of 12 months from the date of manufacture. Store at cool and dry place.

Safety Directions

UltraTech SEAL & DRY - HIFLEX is non-toxic. Use of gloves recommended. Any splashes to the skin or eyes should be washed off with clean water immediately. In case of prolonged irritation, medical advice should be sought. UltraTech SEAL & DRY - HIFLEX is non-flammable.

Other Product Categories available with UltraTech Building Products Division

- Tile Adhesives
- Micro Concrete and Repair Product
- Industrial/Precision Grout and Anchors
- Water Proofing and Injection Grouting Material
- Plasters and Jointing Mortar
- Floor Screeds
- Autoclaved Aerated Lightweight Concrete Blocks

DISCLAIMER

Information provided on this data sheet is the guideline for usage. Users are advised to undertake a trial for product suitability prior to its full scale usage. There is no implied guaranty/warranty for the results and the company is not liable for any consequential damages.

Description

UltraTech SEAL & DRY - HIFLEX is a two component, cement based, acrylic emulsion polymer based elastomeric, waterproof coating incorporated with high quality polymer additives, and fillers for all positive side water proofing applications.

Features & Benefits

- >100% elongation @ tensile force of 50 Kg/cm²
- Water resistance up to 7 bars water pressure @ 1 mm DFT
- Resistant to occasional foot traffic
- Excellent breathability through the applied membrane
- Consistent quality made using high quality polymers, additives and fillers
- No water curing
- Strong adhesion to substrate
- Convenient to apply
- Faster completion of work
- Negligible wastage due to higher pot life
- Brush application consistency
- High positive side waterproofing ability
- Non-toxic
- Good chemical resistance against soft water, domestic waste water

Areas of Application

UltraTech SEAL & DRY - HIFLEX can be used for positive side water proofing of terrace, slope roofs, balcony, domes, swimming pools, sump tanks, exterior walls. It can be used effectively over concrete surfaces, natural stones, and marble & granite bottom areas. Ideal for large spans of old and new surfaces of any geometry. Highly suitable for demanding applications with area greater than 10,000 sq.ft.

METHOD OF APPLICATION

Surface Preparation



- Prepare the surfaces before the UltraTech SEAL & DRY - HIFLEX application by removing oil, bond inhibiting agents, dirt, dust and laitance
- The cleaning can be carried out with suitable methods like by using wire brush, water jetting, mopping, etc.
- Use UltraTech KRACKFIL to fill the non-structural cracks if any on the surface prior to application of UltraTech SEAL & DRY - HIFLEX
- If any structural related issues are noticed, care to be taken to attend the same before waterproofing
- Use UltraTech MYKROFILL for pressure grouting of weak/honey combed areas prior to application of UltraTech SEAL & DRY - HIFLEX
- UltraTech AQUA PLUG - Rapid Setting water plug material to be used to stop running water leakages before waterproofing application

Mixing



- In a mixing vessel slowly add the powder component into the liquid component and continuous stirring to be done by using mechanical stirrer for 2-3 minutes to ensure a consistency free of lumps
- Mix only the required quantity in the set proportion (1.4 part powder + 1 part liquid) which is consumed within the 2 hours pot life period and as per the requirement for total area of treatment

Application



- Use soft bristle brushes to apply UltraTech SEAL & DRY - HIFLEX to have uniform and required thickness in 2 coats one perpendicular to the other. Second coat can be applied after a minimum gap of 24 hours during normal climatic conditions
- Average thickness of each coat should be in the range of 0.4-0.5 mm DFT and number of coats may be increased to achieve higher thickness as per the demanding application areas
- It is recommended to adopt a sandwich system of application if UltraTech SEAL & DRY - HIFLEX is applied in exposed areas like roofs and terraces
- UltraTech FLOORKRETE with 8 mm down aggregate @ 1:1 mix ratio as top screed is recommended over UltraTech SEAL & DRY - HIFLEX coated areas for enhanced life
- UltraTech SUPER STUCCO is suggested as top screed over domes and sloped roofs for screed thickness < 6 mm