

UltraTech SEAL & DRY

Elastomeric Waterproofing

HI-FLEX



Series: SDHF0012
Month: September 2019
Supersedes all earlier TDS

Description

UltraTech **SEAL & DRY HI-FLEX** 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 waterproofing 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 HI-FLEX** can be used for positive side waterproofing 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 HI-FLEX** 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 suitable crack filler to fill the non-structural cracks if any on the surface prior to application of UltraTech **SEAL & DRY HI-FLEX**
- 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 HI-FLEX**
- 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 HI-FLEX** 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 HI-FLEX** is applied in exposed areas like roofs and terraces

TECHNICAL DATA AS PER RELEVANT IS AND ASTM STANDARDS

Bulk density - powder component	1100-1200 Kg/m ³
Solid ratio - liquid component	50% $\pm$ 1%
Type of polymer	Acrylic polymers
Mix ratio by weight	1.4 part of powder to 1 part of liquid
Elongation % ASTM D 412	More than 100% @ 50 Kg/sq.cm @ 1 mm DFT
Pot life	2 hours
Type of application	By brush
Coverage	17-18 Sq.ft per Kg of combined weight of the product @ 1 mm DFT in 2 coats
Thickness of layer	0.4-0.5 mm DFT per coat
Water curing	No need of curing
Wastage	Negligible
Final finish	Smooth breathable coating
Water permeability test (DIN 1048)	Upto 7 bar positive side water pressure
Pull out adhesion (ASTM D 4541)	More than 0.3 N/sq.mm
Chalking	Nil
Appearance of final mix	Grey colour
Water ponding	To be carried out after 72 hours only after proper hardening of the coating, 3 to 4 days subsequent to 2nd coat of application

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Shelf Life

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

Other Product Categories available with UltraTech Building Products Division

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