

Description

UltraTech **MYKROFILL** is an injecting grout for pressure grouting and injection applications in concrete and similar structures. **MYKROFILL** is incorporated with high quality polymer additives and specialty fillers.

Specification

Technical parameters complies with **EN 445 - 2007**.

Features & Benefits

- The unique system compensates for plastic shrinkage and settlement in properly designed cementitious grout
- Reduced water-cement ratio in the grout mix ensures low permeability and long term durability in service
- Gives high fluidity, thus making placement or injection of grout easy
- No metallic iron content to corrode and cause staining or deterioration due to rust expansion in the grout
- Composition allows high early strength development in grouts, without the use of chlorides
- No need to mix cement, direct use with addition of water
- Reduces errors in dosages as like other expanding grout admixtures

Areas of Application

UltraTech **MYKROFILL** can be used for all types of pressure grouting/injections in concrete or similar building structures which need to be filled or strengthened in weak/honeycombed areas. Highly recommended for post tensioning grouting and also for water proofing and repair applications which demand injections.

METHOD OF APPLICATION

Mixing



- UltraTech **MYKROFILL** requires 45-50% of water by weight of material
- For best results a mechanically powered grout mixer must be used. For quantities up to 50 Kg, a slow speed drill fitted grout mixer with a high shear paddle is suitable
- Large quantities will require a high volume drum mixer
- It is essential that, machine mixing capacity and labour availability is adequate to enable grouting operation to be carried out continuously. This may require the use of a holding tank with provision for gentle agitation to maintain fluidity
- The measured water should be carefully poured into the mixer. Mixing shall be continued for 5 minutes, making sure that a smooth even consistency is obtained

Application



- It shall be ensured that areas to be grouted are clean, sound, and then pre-wetted. The unrestrained surface area of the grout must be kept minimum
- The pot life of UltraTech **MYKROFILL** mix is 30 mins
- Usual placing or pumping procedures shall be adopted ensuring a continuous operation. It is recommended to use 3 to 4 bar pressure for injection grouting

Curing



- On completion of the grouting operation, any exposed areas which are not to be cut back should be thoroughly cured by means of water application/curing membrane or wet hessian

Cleaning



- UltraTech **MYKROFILL** mix should be removed from the tools and equipment and should be cleaned with clean water immediately after use

TECHNICAL DATA AS PER RELEVANT IS AND ASTM STANDARDS

Parameter tested	Specification from standards	Observed value	Compliance (Yes/No)
Efflux time (sec)	≤ 25 sec after 10 min	23 sec	Yes
Standard bleed (%)	0% @ 3 hrs	0%	Yes
Wick-induced bleed (%)	≤ 2% @ 3 hrs	0%	Yes
Pressure-induced bleed (%)	= 2% @ 50 psi	0.65%	Yes
Flow spread (mm)	> 140 mm	450 mm	Yes
Compressive strength (MPa)	20 MPa @ 28 days	25-30 MPa	Yes
Shrinkage strain (%)	0% to 0.1% after 24 hrs	0.02%	Yes
	≤ 0.2% after 28 days	0.114% @ 7days	
Setting time (hrs)	> 3 hrs but <12 hrs	10 hrs 30 mins	Yes

Note: Above mentioned specifications are the appropriate values taken from EN 445:2007, FIP, PTI, JSC and MORTH.

Note

- Allow a minimum of 24 hours for the subsequent usage. Do not use if temperature is likely to drop to below 5°C or exceed 50°C
- 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
- Consult UltraTech Building Products Division Technical Services Cell for any further technical assistance

Safety Directions

- UltraTech **MYKROFILL** is non-toxic. Use of gloves and goggles 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 **MYKROFILL** is non-flammable

Packaging

25 Kg

Shelf Life

- UltraTech **MYKROFILL** has a shelf life of 6 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
- Industrial/Precision Grout and Anchors
- Waterproofing
- Plasters and Jointing Mortar
- Floor Screeds & Masonry
- Autoclaved Aerated Lightweight Concrete Blocks

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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.

