

Materials Selection Guidelines

CONCRETE CRACK INJECTION

•	Potable '	w ater	applica	tion	S		- FLEXIBLE
•	Stopping	flowin	ig watei	· lea	ks		- FLEXIBLE
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- Waterproofing dry cracks +0.25 mm FLEXIBLE
- Waterproofing wet cracks +0.25 mm FLEXIBLE
- Waterproofing fine cracks < 0.25 mm FLEXIBLE
- Waterproofing hairline cracks FLEXIBLE
- Waterproofing dry honeycombed areas FLEXIBLE
- Waterproofing wet honeycombed areas FLEXIBLE
- For cold temperature injection down to 0°C use
 FLEXIBLE and additional accelerator to compensate for cold temperatures

PULP AND PAPER

Injecting concrete cracks
 Sealing construction joints
 Sealing expansion joints
 Sealing cracks in concrete slabs
 Sealing leaks from process tanks
 Seabove
 FLEXIBLE
 FLEXIBLE

• Use FLEXIBLE polyurethane resin for increased resistance against chemical attack; call MULTIURETHANES for technical assistance regarding chemical resistance applications and techniques for stopping leaks from process liquid tanks

UNDERGROUND PARKING GARAGES

- FLEXIBLE

• Waterproofing expansion joints	- FLEXIBLE
• Sealing conduits and pipe openings	- FLEXIBLE
 Waterproofing ledge beam joints 	- FLEXIBLE
• Repairing waterproof membranes	- FLEXIBLE

• Repairing construction joints



Cracks in concrete water treatment tanks are sealed from the outside while the tanks remain in operation using MULTIURETHANES injection products, equipment and accessories



Precast manholes are permanently sealed with MULTI-GEL resin, using special manhole sealing equipment and injection techniques supplied by MULTIURETHANES

MUNICIPAL & UTILITY

• Potable Water applications - FLEXIBLE • Sealing precast manhole joints - MULTI-GEL • Sealing brick manholes - MULTI-GEL • Sealing man-accessible pipe joints - FLEXIBLE • Sealing small diameter pipe joints - MULTI-GEL • Waterproofing sewage retention tank - FLEXIBLE • Waterproofing expansion joints - FLEXIBLE • Sealing conduits and pipe openings - FLEXIBLE • For soil stabilization: use stable, cement-based suspension

grouts, microfine cement-based grouts, or acrylate resin.



Materials Selection Guidelines

MARINE & UNDERWATER STRUCTURES

- Sealing underwater cracks & joints FLEXIBLE
- Underwater soil stabilization and cavity filling: use stable, cement-based suspension grouts and microfine cementbased grouts where applicable; use ULTRAFINE or UNIVERSAL foam-producing resins when flowing water conditions are encountered.
- Restoration of historical structures: use cement-based grouts or light weight cellular grouts in combination with polyurethane resins as required.
- Call MULTIURETHANES for technical assistance regarding underwater grouting applications, equipment and techniques for use by divers.



Miners preparing for polyurethane injection to stop inflows of quicksand into a 24 foot diameter shaft collar excavation

MINING AND TUNNELLING

 Stopping water inflows: use stable, cement-based suspension grouts and microfine cement-based grouts where applicable; use ULTRAFINE resin in soil or UNIVERSAL resin in rock when large inflows of water are encountered.

GEOTECHNICAL

- Soil stabilization and cavity filling: use stable, cementbased suspension grouts and microfine cement grouts where applicable; use ULTRAFINE or UNIVERSAL polyurethane resins when flowing water conditions are encountered.
- Slab jacking and foundation compaction grouting: use stable, cement-based grout formulations.
- Stopping water leaks around ground anchors and wall tie-backs: use stable, cement-based suspension grouts with UNIVERSAL resin to provide a fast-setting grout to cut off water flows.
- Stopping water leaks and soil loss through caisson walls: use stable, cement-based suspension grouts in conjunction with UNIVERSAL polyurethane resin for fast-setting repairs.
- Preventing soil liquefaction when undertaking deep excavations below the water table in sandy soil: use microfine cement; use ULTRAFINE or UNIVERSAL polyurethane resins for flowing water conditions.

CONCRETE DAMS AND POWERHOUSES

- Concrete crack injection
- see above
- Stopping flowing water leaks
- FLEXIBLE
- Sealing underwater cracks & joints
- FLEXIBLE
- Foundation grouting and cavity filling: use stable, cementbased suspension grouts in primary grout holes and microfine cement-based grouts in secondary grout holes to reduce residual permeability.

EARTH DAMS AND TAILINGS DAMS

- Foundation grouting and cavity filling: use stable, cementbased suspension grouts and microfine cement grouts.
- Stopping water leaks: use stable, cement-based suspension grout in conjunction with **UNIVERSAL** polyurethane resin to provide a fast-setting grout to cut off water flows through earth dams.