



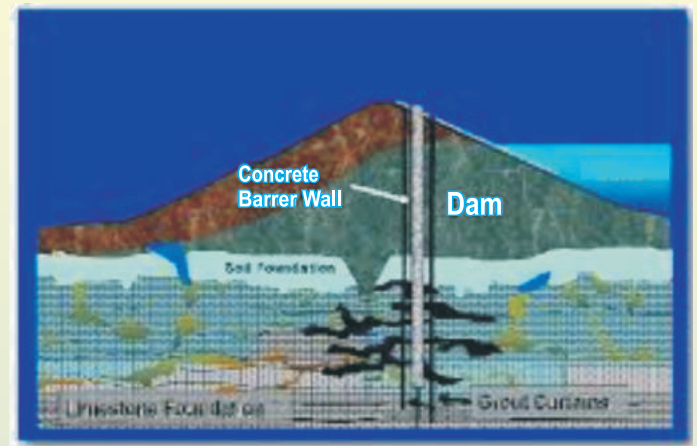
# Pro-tech systems

*Construction and all civil works*

**Structural Rehabilitation and Strengthening.**

**Injection Solutions For Honeycomb Areas and Air Entrend Gaps.**

We provide services for concrete and masonry structures , rehabilitation and leakage for dams, Tunnels, canal. Overhead tanks, huge water tanks, bridges, residential and commercial structures.



Formed Objects

Single or Multiple Cracks

Pourous Avenues



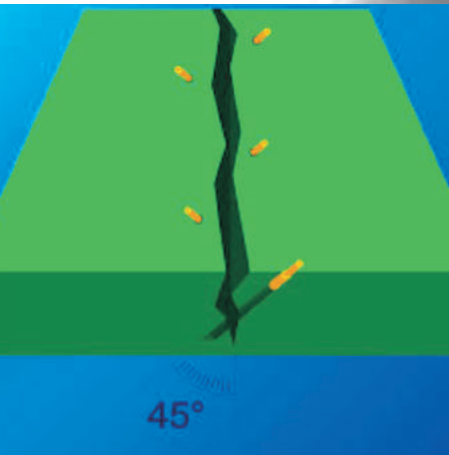




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Conventional concrete, which can be considered to be an artificial rock, is not intrinsically waterproof. It absorbs water. The rate of absorption depends upon many factors, including the porosity of concrete. In addition, excessive contents of water-soluble alkalis in cement (as in the case of Indian cements of recent periods) can make concrete highly absorbent<sup>1-4</sup>. Today's concrete structures, compared to concrete structures of earlier decades, also suffer from higher thermal and shrinkage stresses and the resulting cracks<sup>1-5</sup>. The result: water retaining structures, e.g., tunnels, subways, basements, buildings, etc. are characterized by water seepage and leakage unless such structures will be effectively waterproofed.



In addition to ungainly sights, operational difficulties and damages to contents, etc., water leakages, seepages and dampness adversely affect the durability of tunnels and other concrete structures, as even minor dampness can lead to an early ruination of the structure by accelerating the process of corrosion in rebars and thereby inviting conditions of distress in the structure .



In the case of water retaining structures, in addition to the seepage of water due to the development of thermal and shrinkage cracks or due to porosity in concrete, water leakages may also occur at expansion joints, construction joints, honeycomb areas, and isolated locations of defects and discontinuities as at locations of inserts and embedments. In addition to running water leakages through these locations of defects or planned structural separations, there can be minor sweating or dampness of the surface. This sweating or dampness is generally influenced by the general porosity or perviousness of concrete.



Water leakages or seepages through a structure can go much beyond being an architectural nuisance or an operational inconvenience. The leakages may prevent the use of the facility. The leakages may also damage equipment and inside the structures and other underground facilities.





## Application Areas



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**Tunnels**



**Bridges**



**Roads**



**Hydraulic Engineering**



**Drinking Water Structure**



**Wastewater Treatment Plants**



**Residential & Commercial Properties**



**Industrial Structures**



**Building Pits and Foundations**

Injection grouting is an effective method for repairing or strengthening to the structure.

This technique involves low-pressure injection of fine hydraulic lime grout into cracks, voids and cavities within the structure.

This technique increases building resistance to moisture penetration and restores the material continuity across the cracks.

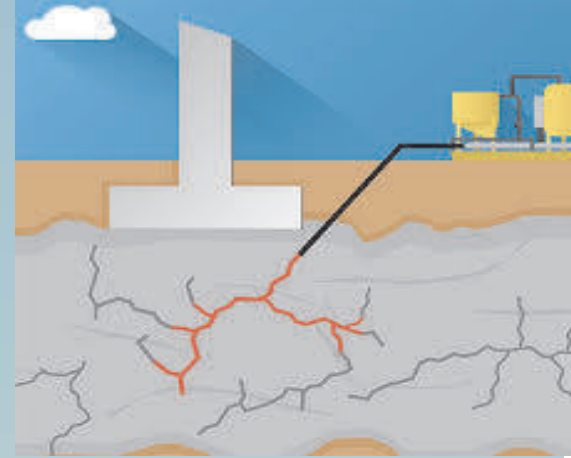
Injection grouting is especially useful for restoring or stabilizing historic structures because the technique does not alter the building's appearance.

It increases the structure's durability and overall service life by bonding wythes and reducing moisture infiltration.

**Seal leaks in concrete or masonry with pressure injection is the perfect remedy for structure.**

**Injection grouting formulated to stop leakages stabilize soils and protect concrete structures.**

**Desired results are achieved by choosing the appropriate product and using the correct application technique.**

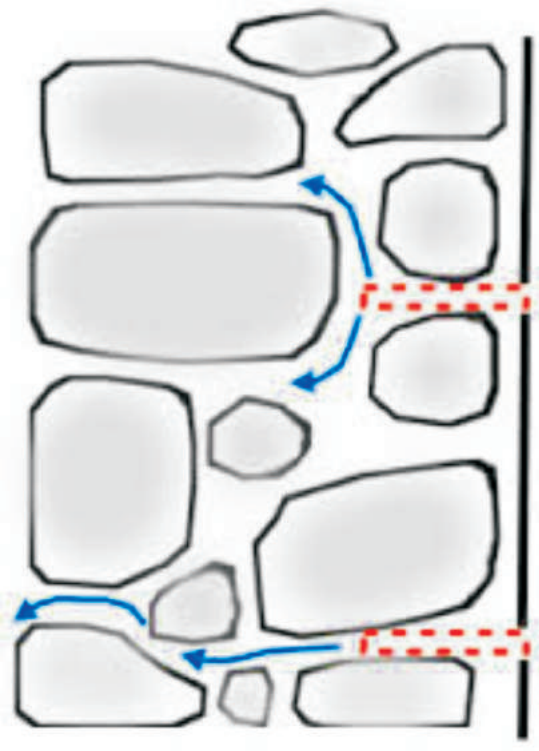


**Pre injection for ground constructions, construction joints, crack repairs, repair of pinholes, patch repairs.**



**Injection grouting for expansion joints.**

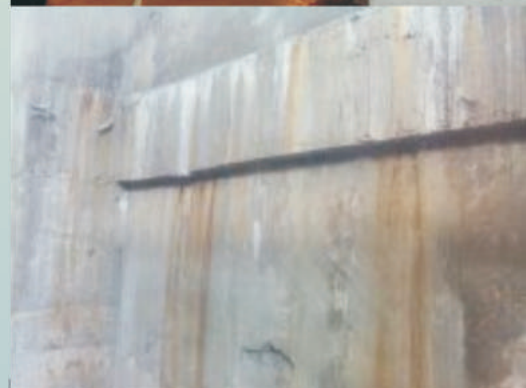




**Barn  
Interior**

**Injection Port**

**Grout Path**



### **COMPANY QUALITY POLICY :**

- Customer is the focal point of all our activities.
- Customer's satisfaction regarding product quality, delivery, service and information enjoys highest priority.
- All management functions contribute towards fulfillment of customer needs and expectations.
- The company aims to continuously improve its products and services through adopting a progressive quality management systems.



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