

# ROCKMAX<sup>®</sup> AC GEL



ACRYLATE GEL RESIN

CURTAIN GROUTING, WATER BARRIER, SOIL STABILIZATION

## INTRODUCTION

**Rockmax AC GEL** is a low viscosity, environmentally friendly, acrylate injection system. It is able to spread to fine soil and fill voids between interface areas of the concrete and substrate. This injection system provides excellent waterproofing capabilities for use in the creation of grout curtains behind existing concrete walls or abutments. It can create solid, homogeneous membranes beneath concrete floors as well as stabilizing soil and filling voids at the building foundation and interface areas. Their hydrophilic properties provide a lasting and durable barrier against moisture and water pressure intrusion. It non-toxic chemical that can use with portable water tank and underground.

## AREA OF USES

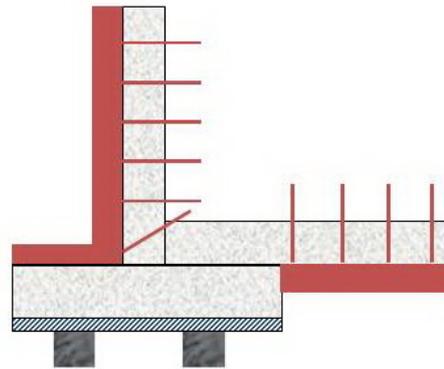
**Rockmax AC GEL** can be used to create water barrier, soil stabilization and curtain grouting underground including with tunnels, subways, sewages, water tanks, retaining walls, dams, canals, shafts, basements, construction joints, expansion joints, crack filling, leakage of concrete structures and brick or block gap filling. Protect moisture movement from underground.

## ADVANTAGES

- Design specially for underground curtain grouting for water barrier or waterproofing purpose.
- Excellent permeability during application state, it is very easy to permeate in to very fine soil and voids.
- Swell upon contact with water to create water barrier.
- Highly elastic and flexible gel type. Can be use on movement from concrete structures or movement of soil undergrounds.
- Control workability. It can adjust the curing time of material depend on job site conditions.
- Non-toxic, Can be use to all kind of underground structures and portable water tank.
- Non-flammable or explosive.
- Long life, Its maintain waterproofing capabilities in long period of time and

more than any others injection materials

- Increase strength of soil underneath create the support of structure.



## TECHNICAL PROPERTIES

**Rockmax AC GEL** is supplied in a kit containing:

Component A :	20kg
Accelerator:	150gram
Component B:	20kg

### Component A properties:

Form & Appearance:	amber
Density:	1.0 - 1.2 g/cm <sup>3</sup>
Viscosity:	5 cps

### Component B properties:

Form & Appearance:	clear liquid
Density:	1.0 g/cm <sup>3</sup>
Viscosity:	10 cps

### Mix properties

Form of material:	gel
Mix ration (A : B)	1 : 1 (by volume)
pH	8
Viscosity	5 - 7 cps
Reaction time (at 25°C):	20 - 45 second
Application temperature:	+5°C to +45°C

## PREPARATION

It is necessary to analyze the nature and state of the building and to examine the foundation soil before making new sealing surface (curtains) in building components in direct contact with the foundation soil or within the existing structure. Such an analysis provides the necessary information on the feasibility of the planned injection measures and the

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materials consumption rate to be expected. The results of this analysis are decisive for positioning the drill holes to be made for the building project. Standard patterns: gel injection into the foundation soil in the form of a vertical curtain and horizontal floor.

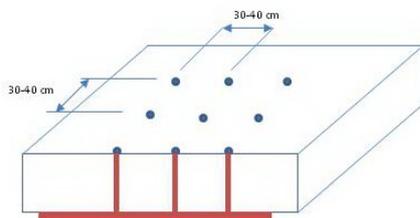
## MIXING

- For reasons of storage stability, component A is supplied in two separate container. Mix component A with accelerator which are provided according to the required mixing ratio.
- Component B is ready to mix.
- Component A (A + accelerator) and component B should be mixed in identical vessels.
- After mixing the components, apply the material swiftly by means of 2-component injection pump at a mixing ratio of 1 : 1 (parts by volume).

## APPLICATION

### Curtain injection

Install injection packers in the drill hole. Inject the AG gel from bottom to top (beginning at the lowest point). Proceed with the injection process until the emergence of material of the gel formation in the adjacent drill hole. The reference value for the gel's consumption is approx. 5 to 60 kg/m<sup>2</sup> depend on soil condition. Strongly cohesive, very dense soil will provide a low consumption rate while sandy soil or even large rocks behind the structure increase consumption rate.



## FINAL WORK

The packer can be removed immediately after the gel formation. Mechanical packers cleaned by means of rinsing pump (water) can generally be used again. After dismantling the packers, remove all gel from the drill holes and fill with

concrete repair mortar (**Rockmax TOP**) or quick setting cement mortar for brick work (**Rockmax Waterplug**).

## CLEANING

Clean the injection pump and equipment exclusively with water and soap. Rinse the injection pump thoroughly with water anytime work is interrupted for a long period of time and upon conclusion of the injection procedure.

## LIMITATIONS

- Experience trained applicators was required to involve this type of material.
- Avoid contact this material.

## PACKAGING

Part A: 20kg, accelerator: 150gram

Part B: 20kg

## STORAGE

Storage in shade and dry condition free from frost, water, moisture and high temperature. **Rockmax AC GEL** must be store in air tight container. Must protect from atmospheric moisture. Must be store in area where temperature around 10°C – 25°C degree.

## SHELF LIFE

12 months if kept follow instructions and un-open.

## PRECAUTIONS

Avoid contact with skin and eye. Goggle and glove must be use while application. Clean with plenty of water and soap when contact with and see doctor as quick as possible. MSDS is available upon request.

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**IMPORTANT NOTE!!**

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