

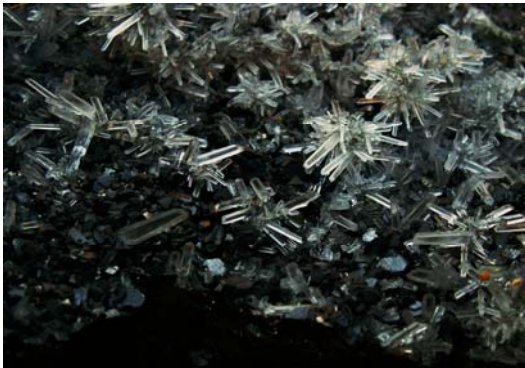
ROCKMAX[®] CRYSTALSEAL

CRYSTALLIZATION WATERPROOFING SYSTEM



INTRODUCTION

Rockmax Crystalseal is a crystallization waterproofing system based on cementitious slurry form. It consists of a selected silica aggregates, quartz sand, chemical additive and portland cement. **Rockmax Crystalseal** is full fill pore and capillary in concrete surface after chemical reaction developed. The cured material can withstand hydrostatic water pressure, chemical resistance, protection of concrete and become permanent waterproofing system.



Crystal growth in pore and capillary of concrete

AREA OF USES

- Water tanks.
- Water treatment tanks.
- Waste water tanks
- Reservoirs.
- Tunnels.
- Cement pipes.
- Retaining walls.
- Diaphragm walls.
- Underground basements.
- Foundations.

ADVANTAGES

- Can apply negative and positive side.
- Withstand high hydrostatic pressure.
- Chemical resistance.
- Resistance pH range 3-11.
- Become integral part of structure.
- Protect reinforcing steel in concrete from corrosion.
- Increase compressive strength in concrete.
- Can apply on damp surface.
- Seal minor cracks.
- Easy to apply by brush.
- No need protection from backfill.
- Non toxic.

TECHNICAL PROPERTIES

Form:	powder
Color:	grey (cement)
Bulk density:	approx 1.25 kg/litre
Mix density:	approx 2.02 kg/litre
Hydrostatic pressure:	>70 meter
Portable Water:	Approved
pH resistance:	3 - 11
Pot life (at 30°C):	30 minute
Initial setting time (at 30°C):	90 minute
Application temperature:	+5°C to +40°C

All data properties above are testing under laboratory conditions and control environment.

PREPARATION

Concrete substrate must be sound, clean, free from oil, grease, mould oil, dust, loose particles and cement paste. Check and investigate void, honeycomb, or crack on concrete substrate. All damaged concrete must be repair prior to application. Saturated surface by spray water at least 2-3 hours prior application. No water standing on surface. Damp surface will allow chemical of **Rockmax Crystalseal** penetrate deeply into concrete.

MIXING

Mixer must use low speed drill mixer (500 rpm) with and including good quality steel paddle. Make sure all tools and equipments are in good conditions and clean.

Add material (25kg bag) slowly into 6.0 -7.0 litre of clean water. Mixing continuous approximate 3-5 minute until homogeneous and lump free.

APPLICATION

Coating method:

Apply **Rockmax Crystalseal** by plastic brush with approximate coverage rate 0.9 - 1.0 kg/m²/coat. Two coat applications is recommended. Allow 1-2 hours to dry between coats.



Coat by brush

ROCKMAX[®] CRYSTALSEAL

CRYSTALLIZATION WATERPROOFING SYSTEM



Shake method:

Make sure lean concrete or blind concrete is sound and clean. Reinforcing steel bar is fixed in place and ready to pour concrete. Wear appropriate uniform with safety goggles, mask and gloves. Use **Rockmax Crystalseal** from the bag and spread it in to the lean concrete at approximate coverage rate 1.5-1.6kg/m². Spray minimum water in to the basement slab to ensure the product is moist and in place ready to pour concrete.



Apply by trowel



Apply by dry-shake

CURING

Spray clean water approximate 3 days after dry and 3 times a day at minimum. Protect with plastic sheet to prevent drying up is prefer. Freshly coated material must be protect from rain and water within 24 hours.

REACTION & TESTING TIME

To water test after application, We recommended to load water for testing after 14 days of application to ensure the reaction of crystal has fully developed.

CLEANING

Clean all tools and equipments immediately with water.

COVERAGE RATE

Shake method: 1.5 - 1.6kg/m².

Coating: 0.8 - 1.0kg/m²/coat, 2 coats.

LIMITATIONS

- Apply finishing on top, Need to remove all coated material by sandblast.
- Do not mix with cement.
- Need curing with water.
- **Rockmax Crystalseal** is not structural sealing crack.

PACKAGING

20 and 25kg bag.

STORAGE

Storage in shade and dry condition. Avoid from frost, direct sunlight, water, moisture and high temperature.

SHELF LIFE

12 months if kept un-open and follow instructions.

PRECAUTIONS

Avoid contact with skin and eye. Goggle and glove must be use while application. Clean with plenty of water when contact with and see doctor as quick as possible. Keep out of reach of children. Do not breath dust. For further information please refer to MSDS.

CONTACT DETAIL

THAILAND

Rockmax Company Limited

T: +66 2 8648658

F: +66 2 4184327

E: info@rockmax.net

W: www.rockmax.net

VIETNAM

Viet Dai Viet Chemical Company Limited

T: +84 86 2615184

F: +84 86 2615185

E: rockmaxvn@gmail.com

IMPORTANT NOTE!!

The technical information contained herein, while not guaranty, was prepared and approved by technical personnel and is true, accurate to the best of our knowledge. No warranty or guaranty is made regarding performance, stability or other factors beyond our control. Rockmax will welcome to be consultation of our performance and application. This technical datasheet supersedes and issue new edition without prior notice.