

ROCKMAX[®] CERAMIC V2

LIQUID APPLIED ELASTOMERIC &
HEAT REFLECTIVE CERAMIC WATERPROOF



INTRODUCTION

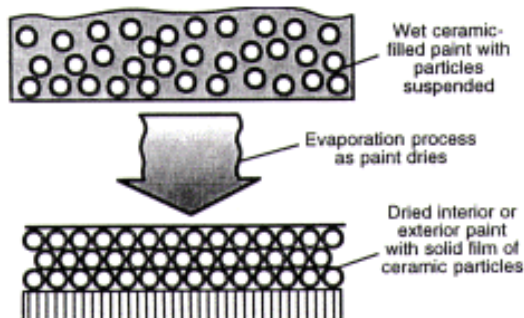
Rockmax Ceramic V2 is a high performance waterborne acrylic binder with and including air encapsulated ceramic microspheres which provide excellent heat reflection. The benefits also include excellent waterproofing, cost saving and reduce temperature inside the building. By using the coating, customers can efficiently stabilize processes, protect personnel and maintain product levels. Its designed for both spray and roller coating method.

AREA OF USES

Rockmax Ceramic V2 can used for the following flat exposed concrete roof, concrete gutter, steel gutter, façade, external concrete wall, roof metal sheet, steel tank, silos, electrical and mechanical room, area required control temperature.

HOW IT WORK

Rockmax Ceramic V2 applies the common physics principles of conduction, emissivity, absorptance, and most importantly, reflectivity. Its highly reflective microscopic particle structure retards a majority of the radiant heat gain back to the environment from which it originated, mainly sunlight. Additionally, each ceramic particle encapsulates air, thereby offering a slow path of thermal transfer. This high content of entrapped and stagnant air blocks thermal transfer very efficiently. In addition, the coating's low emissivity allows for extremely low heat flux. The combination of these factors allows for total thermal dissipation across the surface of the coating. The unique composition of the coating makes it extremely efficient for its thickness and prevents substrates from gaining heat, making those surfaces cooler to the touch.



ADVANTAGES

- Excellent heat reflective >94%.
- Reduce temperature in building.
- Act as thermal insulation.
- Can apply vertical and horizontal.
- Excellent bonding to many substrates.
- Crack bridging ability.
- Good elongation.
- Non yellowing.
- UV resistance.
- Value engineering to building.
- Reduce cost of air conditions.
- Non toxic – water based.
- Reduce thermal shock.
- Prevent rust and corrosion.
- Long life span 10-15 years.
- Easy application one part.
- Can apply by spray.
- Nice appearance.

TECHNICAL PROPERTIES

Color:	white, grey
Form:	Liquid
Solid content:	60%
Density:	0.7 – 0.8 kg/litre
Elongation at break:	>80%
Tensile strength:	>2.0 N/mm ²
Adhesion to concrete:	>1.5 N/mm ²
Water transmission:	0.4 perms
VOC content:	8.5 gram/litre
Flammable:	Non
Pot life (at 30°C):	30 minute
Re-coat (at 30°C):	2 hours
Light traffic (at 30°C):	24 hours
Full cure (at 30°C):	7 days
Application temperature:	+5°C to +40°C
Services temperature:	max +150°C

Thermal properties

Solar reflective (Vis):	approx 94±3%
Thermal conductivity (K value):	approx 0.05
Solar absorbance:	approx 5±3%
Transmissivity:	0%
UV resistance:	Excellent

Consumption & Thickness

Consumption:	0.25 kg/m ² /coat
Number of coat:	2 coats
Thickness per coat:	0.15 – 0.20 mm (dry)
Recommended thickness:	0.30 mm (dry)

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PREPARATION

Concrete substrate must be sound, clean, free from oil, grease, mould oil, dust, loose particles, cement past and. Ensure the surface is dry and free from standing water. The moisture content in concrete substrate must be check with limit not more than 5% moisture contents. If moisture contents in concrete higher than 5% Moisture Barrier must be apply. Check and investigate void, honeycomb, or crack on concrete substrate. All damaged must be repair prior to application. All joints and corner must be treated with **Rockmax PUseal**. Others substrate such as metal, steel should be consult **Rockmax** for more information.

PRIMING

Rockmax Ceramic V2 can dilute with water and apply as first prime coat (20% thin with water). Apply prime coat by brush or spray to the whole area.

APPLICATION

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. Stir **Rockmax Ceramic V2** by mixer at approximate 30 second until see homogeneous. Apply First coat of **Rockmax Ceramic V2** by roller. Allow the first coat to dry at 2 hours before next coat. Apply second and third coat to achieve design thickness (DFT). Follow first coat application.

Airless spray:

In case of spray method. Thin 10% with clean water for easy working properties.

CURING

Protect **Rockmax Ceramic V2** by plastic sheet from rain and water. **Rockmax Ceramic V2** is self curing and curing time is approximate 7 days prior to operation.

CLEANING

Clean all tools and equipments immediately with water.

LIMITATIONS

- Do not apply **Rockmax Ceramic V2** in area of immerse water.

- The moisture content in concrete must be less than 5%. Consult **Rockmax** for advice.
- Higher temperature (>40°C) is not recommended for application.
- Concrete substrate must be at least 28 days old. Do not apply on green concrete.

PACKAGING

23kg plastic pail.

STORAGE

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

SHELF LIFE

12 months if kept 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. MSDS available upon request.

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IMPORTANT NOTE!!

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