

# ROCKMAX<sup>®</sup> SUPERCOTE HPSL

## HIGH PERFORMANCE SELF SMOOTHING EPOXY FLOOR



### INTRODUCTION

**Rockmax Supercote HPSL** is a four components high performance self leveling epoxy resin floor. The material packs consist of base, hardener, aggregate and color pack. The cured product achieve high chemical and abrasion resistance include with smooth, seamless, hygienic floor. It can be laid between 2.00mm and 3.00mm thickness.

### AREA OF USES

**Rockmax Supercote HPSL** applications include high to heavy industrial areas, maintenance areas, laboratories, production plants, clean rooms, assembly areas, warehouses, chemical plants, hospitals, pharmaceutical, cosmetic factories, food processing plants, hygienic production plants and many other industrial environmental.

### ADVANTAGES

- Excellent Chemical and abrasion resistance.
- Excellent Mechanical resistance.
- Withstand foot and light vehicle traffic.
- Non dusting.
- Durable.
- Hygienic.
- Full gloss finish.
- Solvent free and non toxic.
- Fast curing.
- Separate part easier for variety of color.
- Seamless and smooth surface.
- Enhances the beauty of working areas.
- Easy to clean.

### TECHNICAL PROPERTIES

Standard Color: grey, green, red, yellow

Gloss: full gloss

Compressive strength (7days): >75 N/mm<sup>2</sup>

Flexural strength (7days): >30 N/mm<sup>2</sup>

Bond strength (7days): > cohesive strength of concrete

Pot life (at 30°C): approx 60 minutes

Working temperature: 10°C - 35°C

Services temperature: -10°C - 60°C

Initial setting (at 30°C): 24 hours

Heavy services (at 30°C): 48 hours

Final curing (at 30°C): 7 days

Recommended thickness: 2-3 mm

Coverage rate: estimate 1.5 kg/m<sup>2</sup>/mm

The numbers shown above are tested in laboratory with control environmental factors.

Special (made to order) colors can be made upon request. The color might be different from sample.

### REPARATION

#### New concrete substrate

Concrete must be sound, clean and free from oil, grease, wax, cement paste, dust, dirt and any other contaminants. Concrete must be at least 28 days and minimum Compressive strength 25N/mm<sup>2</sup> and minimum tensile strength (pull off) at 1.5 N/mm<sup>2</sup>. Moisture content in concrete must less than 4%. All floors shall received the material topping should be protected by damp proof membrane and not suffer from rising damp. The substrate should not have a relative humidity more than 75% at installation period. Total enclosed impact shot blasting, high water pressure jet, grit planner or scarifying must be employed followed by vacuuming.

#### Old concrete (Uncoated concrete)

Old concrete or uncoated concrete floors is done in much similar manner to new concrete preparation. The concrete surface must be thoroughly cleaned with a strong detergent cleaner to remove all grease, oils and etc. Holes and cracks must be repaired use epoxy injection and epoxy mortar (please consult Rockmax for more information).

#### Previously coated concrete surface

Existing coated surface must be completely removed by sand blasting until received sound surface. Clean all surface with detergent cleaner. Total enclosed impact shot blasting, high water pressure jet, grit planner or scarifying must be employed followed by vacuuming.

### PRIMING

Apply **Rockmax Supercote P** at 1 coat. However on the porous concrete substrate 2 coat of primer must be applied. Allow the primer to dry prior to application (approximate 6-8 hours at 30°C). Please refer **Rockmax Supercote P** datasheet for more information.

### MIXING

Stir base and hardener component separately approximate 10 second. Mix pigment (part D) with base (part A) for 15 second. Add hardener

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(part B) and continue mix for further 30 second. Add aggregate (part C) and mix for approximate 3 minutes until completely homogeneous using electric mixer (400-500 rpm). Avoid whipping air into the material. It is recommended that only full units be used, that all components are thoroughly mixed. We do not recommend using partial kits and reduce material.

### APPLICATION

This material must be applied by specialist trained applicator. Expansion joints, movement joints, thermal control joints must be followed. The guide line joints detail available upon request.

Pour mixed material directly on the surface in a long puddle and spread using either trowel or rubber squeegee. Pull through material until end of joints. Pour new material on to end of joints to maintain wet edge. Check film thickness frequently. Use spike roller to remove any entrapped air. Do not spike roller after 30 minutes or the initial setting time of material. Ambient temperature might be effect to pot life and curing time.

### CURING

Protect applied areas from foot traffic at approximate 24 hours and fully cure in 7 days.

### CLEANING

Clean all tools and equipments immediately with acetone, xylene or other solvents.

### LIMITATIONS

- Do not installation on asphalt, PVC tils, ceramic tile, bricks and normal cement screed.
- Should not be applied on to surfaces suffer from rising damp conditions or have relative humidity greater than 75%.
- Moisture barrier must be applied in case of moisture content in concrete substrate higher than 4%.

### PACKAGING

23kg set.

### STORAGE

Storage in shade and dry condition at 10-30°C. Avoid from sunlight, UV, frost, water, moisture and high temperature.

### SHELF LIFE

12 months if kept follow instructions and un-open container.

### PRECAUTIONS

Avoid contact with skin and eye. Avoid inhalation. Harmful effects may cause during application and care must be taken. Do not expose to flames or other sources of ignition. No smoking allowance. Ventilation must be provided. Some components of this product may be hazardous during mixing and application. Keep out of reach of children. MSDS is available upon request.

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#### ***IMPORTANT NOTE!!***

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