

ROOF GUARD

ELASTOMERIC WATERPROOFING SYSTEM



DESCRIPTION

ROOF GUARD is a single component, liquid applied, highly-resilient waterproofing system based on a newly developed, plasticized acrylic resin with ultra-violet resistant pigments. It cures on exposure to the atmosphere and forms an elastomeric seamless membrane.

FEATURES & ADVANTAGES

- **ROOF GUARD** is a Single Component compound and is ready-to-use from the container without mixing.
- No catalysts are necessary as **ROOF GUARD** self-cures when exposed.
- Cold applied by spray, brush, roller or squeegee.
- **ROOF GUARD** cuts cost of application by eliminating mixing, splicing, sealing tapes, adhesives and other labor consuming methods required when installing other conventional types of waterproofing systems.
- Does not create a mess and objectionable odor.
- Provides a seamless (no joint) waterproofing membrane.
- **ROOF GUARD** has a thixotropic consistency and may be used on vertical as well as horizontal surfaces. It will follow the contour of any irregular surfaces maintaining uniform thickness.
- The superior flexibility and elongation properties of **ROOF GUARD** allow expansion and contraction with the substrate, without cracking or becoming brittle
- Service temperature is from -29°C to 93° C.
- Non-flammable, water based, non-toxic and environmentally safe.
- Waterborne chemistry for uncomplicated handling and clean up

BASIC USES

- Roof decks, and walls (either concrete, or cement mortar, wood and metal.)
- Over terrazzo tiles, asbestos roof and asphalt roofing felt.
- Can be applied over spray-applied polyurethane foam and other materials that are ultra-violet sensitive.
- Topcoat for polyurethane waterproofing membrane.
- Under tiled areas i.e. bathrooms, toilets, kitchens.

TECHNICAL DATA

SOLID CONTENT

By Weight	65%, Heated @ 105 Degrees Centigrade to constant weight
By Volume	54.5%, Theoretical
Specific Gravity	1.32 +/- 0.1
Thickness/Coat	Approx. 1.0 mm, Wet Film.
Re-Coat Interval	4 hours minimum.
Curing Time	4 hours
Tensile Strength	440 psi, ASTM D-412
Elongation	460% ASTM D-412
Hardness, SHORE A	60 ASTM D-2240
Permeance	2.8 perms @ 20 Mils Dry Film.
Permeability	0.05 perms/inch
Temperature Limits	-29°C to +93°C
20 Mils Cracking	NONE
Methods of Application	Brush, Roller, Spray or Squeegee
3000 Hours Carbon Arc Weathering as per BS 3900 Part F3	Has Not Affected the performance

DIRECTIONS FOR USE

Surface preparation:

- All surface must be clean and free of any oil, grease or other contaminants which will interfere with adhesion.
- **Concrete** : All surface to receive Roofguard coating shall be cleaned by sandblasting or acid etching. If acid etching is used a 10% to 15% Muriatic Acid solution applied by mop or broom, shall be allowed to remain on the surface for approximately 10 minutes or until bubbling ceases. The surface shall then be thoroughly washed with clean water to remove all residue and allow to dry. Voids and spaces with a diameter and depth of more than 3 mm should be patched with Repair Mortar.

TERRAZZO TILES, ASBESTOS ROOF, ASPHALT ROOFING FELT.

washed-out joints. Asbestos roofs, Asphalt roofing felt and other roofing materials must be structurally sound prior to **ROOFGUARD** application

● Plywood

All seams between plywood sheet and those between metal flashing and the plywood deck must be reinforced by imbedding a 4-inch wide strip of glass cloth tape in wet **ROOF GUARD** which is brushed evenly over the seam in a thickness of about 1,000 microns, wet. The application of **ROOF GUARD** can subsequently be made over the entire area including the taped areas

COVERAGE	0.55 m ² / ltr at 1.00 mm thickness D.F.T. , depending on surface profile.
PACKAGING	20 Kg pail & 20 ltr Pail
COLOR	Available in White, Grey and Brick Red colors.

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Data Sheet



● Metal Surfaces

Iron and galvanized metal surfaces including metal flashing should be primed with **CEMTEC ZINC RICH** anti-corrosion metal primer. Flashing must be installed at all locations where the horizontal deck joins a vertical surface and all deck penetrations. Reinforce all metal to concrete seams using glass cloth tape rolled into wet **Roofguard**

● Cracks and Control Joints

Except for non-moving shrinkage cracks, all other cracks and joints must be sealed with approved Elastomeric Sealant. Large cracks, 1.5 mm and over, shall be routed out and sealed with approved Elastomeric Sealant or Repair Mortar. Apply sealant to inside area of cracks only. Do not apply to concrete deck surface. Seal secondary control and expansion joints with Polyurethane or Polysulfide Sealant. Use backing rod to control sealant depth. All cracks and control joints must be reinforced by imbedding a 4-inch wide strip of glass cloth tape in wet **ROOF GUARD** which is brushed evenly over the cracks and joint in a width of 125 mm and thickness of about 0.5 mm wet. The application of **ROOF GUARD** can subsequently be made over the entire area, including the taped areas

PRECAUTIONS AND LIMITATIONS

- Do not apply if ambient temperature is below 4° C
- Opened containers should be covered always when not in use.
- Do not apply over wet surface and over free standing water.

CLEAN UP

Clean tools and equipment with water. All tools and equipment should be cleaned immediately.

Application

- Apply **ROOF GUARD** as per recommendation by CONSTRUCTION MATERIAL CHEMICAL INDUSTRIES (CMCI)
- All cracks 1.5 mm and over must be routed or saw cut and sealed with approved Elastomeric Sealant or filled with Repair Mortar.

- Prime Porous and slightly textured surfaces with diluted/thinned **ROOF GUARD** 4 ltr. water/20 ltr **ROOF GUARD** applied at a thickness between 100-150 microns
- At intersections of membrane and vertical walls, columns, pipes and other penetrations including cracks and control joints, impregnate glass cloth tape in between coats of **ROOF GUARD**.
- Apply **ROOF GUARD** by airless spray, roller, brush and squeegee at a rate of 1 ltr/sq mtr/coat
- After 24-hour cure apply a second coat at 1 ltr/Sq. Mtr. to achieve a total dry film thickness of 1.0mm including primer coat.
- Wet film thickness of each coat can be checked by averaging numerous measurements taken with film gauge.
- Checked coated surface for damages and defects like punctures, puddles, pinholes, etc. and do the necessary repairs by cutting out the defective areas and recoating with **ROOF GUARD** allowing an overlap of 100 mm.

HEALTH & SAFETY

- Use protective clothing gloves, mask, goggles, etc.
- Avoid inhalation or contact with skin or eyes. In such events remove the person to fresh air, water with clean water over the affected area and call for medical attention.
- Smoking should be strictly prohibited during application. In confined areas of application, breathing equipment should be made available for operatives.

Quality Statement

CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products CMCI also offers full technical field support to consultants, Architects, contractors, applicators and End Users.

"High Quality Construction Chemicals"
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