



UltraGuard 200

Elastomeric, crack bridging, waterproof and anti-carbonation coating for concrete and masonry

PACKAGING AND COLOURS

UltraGuard 200 is supplied in 20 L pails
UltraGuard FC 100 – 25 kg bags
UltraKure SAS - 210 L drums
UltraKure AS - 200 L drums
UltraPrime AR - 20 L pails

UltraGuard 200 is available in Light Ivory, Grey, Dark Grey and White. Other colours available upon request.

COVERAGE / YIELD

Approximately 0.64 L/m² to achieve a DFT of 400 microns (applied in a minimum of two coats).
Wet film thickness per coat \pm 320 microns. This is the recommended application thickness at which all physical properties have been tested.

Minimum coverage: 0.40 L/m² to achieve a single DFT of 250 microns.

DESCRIPTION

UltraGuard 200 is a superior quality 100% pure acrylic water based anti-carbonation coating that on curing, forms an elastomeric, crack-bridging, protective, anti-carbonation and weather-proof finish. UltraGuard 200 protects concrete from carbonation (anti-carbonation coating) and provides outstanding protection to the substrate against UV rays.

TYPICAL APPLICATIONS

UltraGuard 200 is designed for the protection of reinforced concrete structures. The product can be used on new or old surfaces of concrete, brickwork, plasterwork, plywood, galvanized steel and anti-rust primed steel and asphalt.

Areas of application are:

- Concrete repairs
- Marine environments
- Bridge and highway structures
- Underpasses
- Multi-storey car parks
- Commercial buildings
- Industrial buildings
- Waterproofing a variety of substrates
- Flat roofs and sloping roofs

ADVANTAGES

- Weather resistant
- Elastomeric, excellent crack-bridging properties.
- Easily applied by roller, brush, or airless spray
- Provides barrier against salts and atmospheric gases
- Waterproof - protects concrete from waterborne salts
- U.V. stable - maintains its appearance
- Water vapour permeable.
- As an integral final treatment in the repair and protection of reinforced concrete.
- Water based, non-flammable and low odour.



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TYPICAL PROPERTIES

Relative density	1.38 at 25°C
Solids content by volume	62%
Solids content by weight	73%
Rapid Chloride Ion Penetration ASTM C1202	Very Low
Environmental Resistance ASTM D543	Resistant
Water Vapour Transmission Rate ASTM E96	26 g/m ² 24 hrs
Pull Off Adhesion ASTM D 4541	≥1 N/mm ²
Crack bridging ASTM C1305	No Crack
Tensile Strength ASTM D412	≥0.2 N/mm ²
Elongation at break	>200%
Water Penetration BS EN 12390	Nil
Chemical resistance	Resistant to spillage of gasoline, diesel, sewage, weak acids and alkalis

Note: Take all necessary precautions when potentially faced with high application temperatures and humidity of more than 80%, consult Gulf Additive Factory Technical Services department for further assistance.

APPLICATION GUIDELINES

UltraGuard 200 can be applied by brush, roller, or airless spray equipment. For airless spray application dilute with 7% (1.4 L / 20 L unit) by volume of potable water. Use a tip size of 19-23 thou.

SURFACE PREPARATION: CONCRETE / CONCRETE BLOCKWITH RENDERS

All concrete surfaces should be treated to achieve a sound, clean surface free from laitance, oil, grease, mold release agent, residual curing compound, dust or other contaminants that could impair adhesion.

PRIMING

All external surfaces should be primed with **UltraKure SAS** or **UltraKure AS** applied at approximate rate of 5 m²/L, to eliminate excessive suction and promote adhesion. In temperatures >25°C, application should be made a minimum of three hours before applying the **UltraGuard 200** coating. In cold, humid conditions 24 hours is required to ensure full solvent release.

For internal surfaces such as car park walls, columns and soffits **UltraPrime AR** may be used as an alternative primer. Please go to the latest **UltraPrime AR** datasheet for application rates and details.

Coating the concrete at an early stage prevents penetration of deleterious salts.

FILLER / SCRAPE COAT

Surface depressions, blow holes, aggregate popouts etc., may be rectified with: **UltraGuard FC 100** - Used for application to external and internal surfaces if required.

The appropriate filler is tightly scraped onto the primed and dry surface to be over-coated, paying particular attention to ensure blemishes are filled. Deeper aggregate pop-outs may require filling with repair mortars such as **UltraRep EP 20 / UltraRep FC** in two layers.

The treated surface should be left to cure until the deepest depressions are dry to the touch before overcoating.

SURFACE PREPARATION: ROOF WATERPROOFING

Surfaces to be treated should be clean and dust free. All traces of oil, grease, mould release agent and residual curing compounds should be removed together with any other contaminant that could impair adhesion. Previous waterproofing treatments should be either completely removed or repaired. Cracks in asphalt or built-up felt systems should be filled with a joint sealant (**UltraFlex PU 402**) and allowed to cure.

PLACING / APPLICATION

UltraGuard 200 is applied to the prepared surface in two coats, the first being allowed to dry, before the second is applied.

In hot dry climates, application will be assisted by dampening brushes.

Where the roof is in poor condition, or where substantial movement is expected in the roof structure, apply a sandwich system incorporating reinforcing fabric.

In this application, the fabric is bedded into the wet film of the first coat of **UltraGuard 200** using a charged brush. Ensure that full contact is achieved and there is no air entrapped. Apply a second coat of **UltraGuard 200** when the first has dried, at right angles to the first.



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Weather conditions

UltraGuard 200 is not resistant to rain until the film has dried. This may take less than 30 minutes in hot dry climates and up to 24 hours in temperate humid conditions. Generally, the product should not be applied in rain or if rain is forecast. Similarly, **UltraGuard 200** will freeze in its wet state so should not be applied to frozen substrates or when the temperature is below 5°C or likely to fall during application.

STORAGE AND SHELF LIFE

Shelf life is 12 months from date of manufacturing in unopened original containers. Product must be kept out of direct sunlight and in a dry, cool, preferably air-conditioned warehouse below 35°C temperature. Store clear of the ground on pallets and do not stack pallets.

HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin, and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well-ventilated areas and avoid inhalation.

QUALITY AND CARE

All products originating from Gulf Additive Factory, Qatar facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

GAF-QAT-UG 200-05-23-Rev01

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