PRODUCT DATASHEET

PlekoGuard AC200

PRODUCT DESCRIPTION

PlekoGuard AC 200 is a highly elastomeric, micro-porous waterproofing and anti-carbonation coating, designed to protect concrete and masonry surfaces.

PlekoGuard AC 200 has an advanced micro-porous structure that effectively prevents the ingress of carbon dioxide and chloride ions while allowing the passage of water vapor from the substrate, ensuring long-lasting protection while maintaining breathability for the surface. PlekoGuard AC 200 has elastomeric properties offering excellent crack-bridging capabilities and providing flexibility to accommodate structural movements. Ideal for both protective and decorative applications, PlekoGuard AC 200 delivers a smooth, durable, and decorative coat for concrete and masonry, ensuring long-term protection against environmental factors.

USES

PlekoGuard AC 200 is a single-component, acrylic polymer-based anti-carbonation coating designed for a variety of applications across different types of structures, including:

- Facades of high-rise and low-rise residential and commercial buildings as a vapor control layer
- Commercial and industrial complexes
- Multistory car parks
- Bridge abutments and superstructures
- External surfaces of concrete storage tanks
- Precast concrete elements
- Concrete cladding systems
- Masonry substrates such as bricks and concrete blocks
- Vapor control layer in facade systems

APPROVED SUBSTRATES

It can be used on concrete and various cementitious surfaces.

PACKAGING

20 Kg pail.

COVERAGE

0.25 – 0.35 Kg/m^2 @200microns.

Manufacturer does not warrant square meter coverage, which can vary greatly according to application techniques and substrate conditions.

PROPERTIES

- **Provides long-lasting protection**
- **Water resistant and vapor permeable**
- **Excellent crack-bridging capabilities**
- **Excellent resistance to UV and weathering**
- **Acts as both a protective and decorative coating**
- **Easy to apply single-component formulation**

COMPLIANCE

PlekoGuard AC 200 complies with the requirements of EN1504-2 as a surface protection system for concrete.

TECHNICAL DATA

Property	Method	Value
Appearance		1-component viscous liquid
Color		Grey, White
Carbon dioxide permeability Diffusion equivalent air layer thickness (Sd)		>100 m
Touch dry time +23 °C substrate temperature		2 hours
Dry film thickness		50 – 75
Over coating time		2h@35 °C
Coverage m^2/ kg @ 60 micron DFT		>6-8 (170 gr/m^2)
Solid content by weight		55±2
Mixed Density kg/ltr @ 25°C	ASTM D1475	1.25±0.02
Crack bridge ability	ASTM C1305	1.5 mm
Crack bridging classification	EN 1602	A4 (>1.25 mm)
Chloride ion diffusion	ASTM C1202	<1000 coulombs
Fire Performance		Class A

INSTALLATION

MIXING

Stir thoroughly using a slow-speed drill mixer for approximately 60 seconds, or until a smooth, uniform consistency is achieved

SUBSTRATE PREPARATION

The performance of this product will depend upon the degree of surface preparation. Surface must be sound clean, dry, undamaged, and free of all defective or poorly adhering material, dirt, grease, wax...

On porous substrates, the use of primer is recommended to ensure optimal adhesion.

APPLICATION

PlekoGuard AC 200 can be applied using a brush, roller, or airless spray at a nominal coverage rate of 5 m² per liter. The first coat may be thinned with up to 10% clean water, depending on the porosity of the surface.
Allow the first coat to dry before applying the second coat, typically within two hours, depending on ambient temperature conditions, maintaining the same application rate.
A total dry film thickness of 200 microns is required to achieve effective anti-carbonation protection. For applications where enhanced crack-bridging properties are critical, a minimum dry film thickness of 300 microns is recommended.

CURING

PlekoGuard AC 200 becomes touch dry in approximately 2 hours at 35°C, and around 4 hours at 25°C. Full surface drying typically occurs within 24 hours. It is essential to allow a minimum of 8 hours before applying additional coats. PlekoGuard AC 200 does not require special curing measures but must be protected from rain for at least 4 hours at +23°C after application. Full curing is achieved after approximately 7 days at +23°C.

LIMITATIONS

PlekoGuard AC 200 should not be applied at temperatures below 5°C. In cold weather conditions, avoid application if rain is expected.
Apply PlekoGuard AC 200 only when the substrate temperature is at least 3°C above the dew point to prevent condensation.

CLEANING

Clean all tools and application equipment with clean water immediately after use. Hardened or cured material can only be removed by mechanical means

STORAGE

Store PlekoGuard AC 200 in a cool, dry place, in its original, sealed, and undamaged packaging.
Recommended storage temperatures are between +5°C and +30°C. Protect the product from direct sunlight, heat sources, and moisture.
Shelf life is 12 months from the date of production.

HEALTH AND SAFETY

PlekoGuard AC 200 is non-hazardous and non-flammable. Avoid ingestion and contact with skin or eyes. Wear protective gloves and goggles during application. In case of eye contact, rinse with plenty of water and seek medical advice. For skin contact, wash with soap and water. If swallowed, seek immediate medical attention without inducing vomiting.