Specification

Standard Specification for the application of Keim Granital to exterior precast and insitu concrete surfaces

Project:
Specification: P2511
Date: April 2020
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1.0 PREAMBLE:

This specification is for the coating of precast and insitu concrete surfaces.

The requirement is for an environmentally friendly natural masonry coating system.

The **Keim Granital** coating is a natural mineral silicate system with zero VOCs. The principle advantage of such a system, is the longevity, natural appearance and breathability of the coating system.

The system would provide a 10 year Film Integrity warranty system.

2.0 SURFACE PREPARATION:

2.1 Exterior Pre-cast walls and Insitu Concrete:
This specification is based on the scope of works, covering all specific preparation requirements.

2.2 Extent of works:
All identified external precast, plaster and insitu concrete surfaces

2.3 Surface Preparation:
The concrete or smooth plaster surfaces to which **Keim Granital** is to be applied, must be clean, dust free, and the surface dry at the time of application. Any patching of concrete that needs to be done must be carried out prior to application of the **Keim Granital** and should be done using cement based materials. **Multiplast Finishing Compound or Schomburg Asocret Bis concrete repair products** supplied by Equus are recommended
Waterblast cleaning is required to ensure all traces of release agent material and any other foreign matter is removed. Allow sufficient time after water blasting for the surface to dry, before preparing and applying the **Keim Granital.**

2.4 Surface Pretreatment: Where required

.1 **Cracks/ blemishes and skim coating rough panels**
Allow to clean any cracks or blemishes present in the concrete finish and fill with Multiplast Finishing Compound or similar approved. Sand smooth within 6 hours if possible. The product can be built up from 0.5mm to a maximum of 4mm.

.2 **Water and Rust Stains**
Consult Equus for inspection. If these are prevalent, then the primer coat will need to change to **Equus Chevaprime UM**

3.0   KEIM GRANITAL COATING APPLICATION:

Keim Granital system – 3 coats

3.1   First Coat: Keim Dilution

Apply **Keim Dilution** direct from the container by spray application [or roller] at 10 to 12msq per litre. Allow to dry overnight. <u>Alternative primer:</u> if there are water stains noted on the concrete panels, apply one coat of **Equus Chevaprime UM** at 10msq per litre by roller and brush in lieu of the **Keim Dilution** Primer.

3.2   Second Coat and Third Coat: Keim Granital Topcoats

For the **Keim Granital** topcoats - If using a roller, use a medium nap roller and, as with brushing, ensure that you always finish in the same direction.

Spread rate is approximately 6 sqm per kg per coat on smooth concrete. Let the second coat dry at least 48 hours and longer in marginal conditions, before application of coat 3. Ensure there is no forecast rain in the next 6 hours after coating application. Temperatures should be a minimum of 10 ° C at time of installation.

3.3   Low pitch surfaces and window ledges.

Selectively strip coat these surfaces with two coats of **Chevaline Stonewash** in a matching colour

3.4   Concrete Panel Sealants

Coat these with two coats of **Chevaline Stonewash**, tinted to the exact Keim Colour

4.0   SPECIFICATION NOTES:

4.1   Handling:

The material handles very much like heavy bodied water based paint and should be treated in the same way. Do not work in direct sunlight if you can avoid it. When working on an area, always work to a straight edge corner for change of direction, before stopping work

4.2   Dilution:

Never dilute or thin **Granital Topcoats** with water. If the material is a little 'heavy,' dilute with a small further amount of **Keim Dilution.**

Once **Dilution** has been added to **Granital,** there is no 'pot-life'. The purpose of adding **Dilution** on site is simply to ensure that you make allowance for the particular coat of the system that you are applying, and the atmospheric conditions at the time.

4.3   Clean up:

Clean your application and mixing equipment by washing up in clean tap water. Let equipment dry before reusing.

4.4   Health and Safety:

Keim Granital is environmentally friendly. However, we would still recommend the use of barrier cream on hands and arms before using the material as this will make it easier to clean splashes off your skin.

4.5   Equus Quality Assurance Program:

Equus Industries Ltd will provide a full Quality Assurance document for the contractor to observe during the installation process. This will be in the form of a chronological sequence and will require sign off per area by the contractor and the Equus Technical Representative.

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5.0 MAINTENANCE AND WARRANTY:

5.1 Maintenance:

This coating system may be cleaned at any time by low pressure washing with a weak (0.1 %) solution of neutral detergent. Refer to the job specific cleaning document designated for this project. The window cleaning materials are identified in this program. When recoating is required either to maintain long-term integrity or for weather resistance, this may be carried out using one or two coats of **Keim Granital**. It may be necessary to periodically clean the surface every 5 to 10 years to maintain **Keim Granital's** pristine appearance. Refer to the maintenance document provided by Equus Industries Ltd.

5.2 Warranty:

Provided work is carried out in accordance with this specification, or with amendments made by Equus Industries Ltd as a result of site investigation before or during the contract, warranties can be made available for terms as below.

Keim Coating System -10 years film Integrity

Such warranties are issued by the Equus Approved Applicators contracted to do the work and are backed by Equus Industries Ltd as to suitability and quality of the materials supplied.

A full Equus QA Program will be incorporated within the contract with inspections and sign offs being a recommended component within the installation process.

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