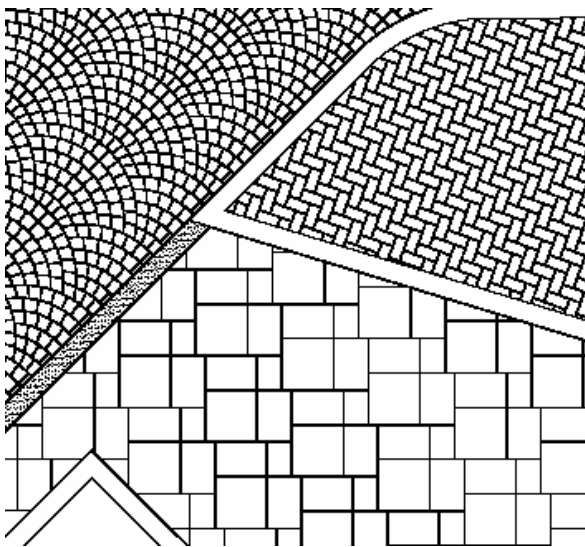# Civil Engineering Structures

Cairo Festival City
Kidzania, Egypt

Project Name: Kidzania
Scope: Stamped Concrete work
City: Cairo
Country: Egypt
Main Contractor: Mivan Limited
Applicator: Sodeco Specialties S.A.E
Construction Period: 2013 -2014
Owner: Al Futtaim

Technical Information
Products Used:
Color Hardener
Release Agent
Sealer

Areas Treated:
2,500m2

❖ **Color Hardener Material**
Color hardener is a dry shake for coloring and hardening concrete flatwork

❖ **Release Agent**
Colored, dry shake – on powder to facilitate, imprinting tools release from the concrete and provides moderate color variations to the textures

❖ **Sealer**
An acrylic sealer for surface sealing and glazy impression should be used.
Sealer could be applied by spray or bush in one or two coats as per site conditions.

EXECUTION

Pouring of concrete slab
- The formwork shall be installed and the slab thickness shall be 10cm or as per site condition.
- The concrete shall be placed and screeded to the finished grade and floated to uniform surface in the standard method.

Coloring and imprinting the surface
- The color hardener shall be applied evenly to the plastic surface by the dry shake method in one or more shakes, floated after each and trowled only after the final floating.
- The release agent shall be applied evenly to the surface.
- While the concrete is still in the plastic stage of set, the approved pattern imprinting tools shall be applied to make the desired impression to the surface.
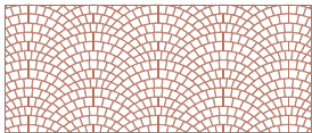
Surface Finishing
- Curing shall be maintained.
- Cleaning and washing surface shall take place after curing.
- Sealer for the surface shall be applied immediately after the cleaning water has completely dried.
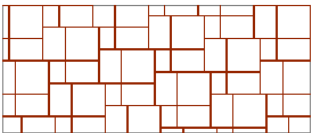
Imprinting Patterns

BOMANITE
TABIQUEL
STONE PATTERN(60X37CM)

BOMANITE
ABANICO
FAN PATTERN(84x47CM)
NATURAL CONCRETE COLOR

BOMANITE
STONE PATTERN(45X45CM)
PANTONE 470 C

Colors

- All surfaces should be colored with the required color hardener as per the attached color chart.