PRODUCT CODE 5651

QUARTZ CRYSTALLINE COATING



PRODUCT DESCRIPTION

Asian Paints SmartCare Quartz Crystalline Coating is composed of high quality cement, properly selected & graded inert aggregates, proprietary waterproofing active chemicals & additives. It is used as a chemically active waterproofing treatment for concrete. SmartCare Quartz Crystalline Coating when mixed with water and applied as a brush coat to concrete, it penetrates deeply into the capillaries of the concrete to form billions of needles like crystal which blocks the pores, voids & micro cracks in concrete. It is effective against substances of high contact pH value

FEATURES & BENEFITS

- Becomes an integral part of the concrete
- Applied from either the positive or negative side
- Effective against hydrostatic pressure from either positive/negative surface of the concrete slab
- Easy to apply by brush
- Applicable over green concrete
- Seals hairline cracks up to 0.4 mm
- Non- toxic in nature
- Resists chemical attack like chloride, sulfate etc.
- Allows concrete to breath
- Penetrates deeply to seal capillary tracts and shrinkage cracks

PRODUCT INFORMATION

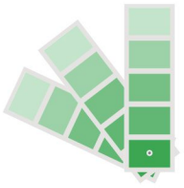
AVAILABLE PACKS



25 Kg

COLOURS AVAILABLE

Grey



DOSAGE

750 gm per sqm of powder i.e. 1050gms of mixed material for one square meter area.
Mixing ratio – Powder (5 parts): Water (2 Parts)



AREAS OF APPLICATION

- Reservoirs
- Sewage and Water Treatment Plants
- Secondary Containment Structures
- Tunnels and Subway Systems
- Underground Vaults
- Foundations
- Parking Structures
- Swimming Pools

MIXING & APPLICATION

Surface Preparation – Concrete surface should be clean and remove loose particles, dirt, grease etc by wire brushing followed by high pressure water jetting. Any crack/holes/honey combing etc. must be repaired with polymer modified mortar. The concrete surface should be in Saturated Surface Dry (SSD) condition prior to application.

Mixing – SmartCare Quartz Crystalline Coating should be mixed by mechanical stirrer with clean potable water to a lump free smooth paste. Always add powder to water under stirring. Mix only as much material as can be applied within 30 minutes and stir mixture frequently.

SLURRY COAT APPLICATION: ON EXISTING OR OLD SUBSTRATES WITH DAMPNESS

1. Apply SmartCare Quartz Crystalline Coating slurry with a clean brush in SSD condition on concrete substrate. Use an aggressive circular motion of the brush or wooden float with mixed slurry.
2. Apply a 2nd coat when the 1st coat is still green and tacky in direction perpendicular to the 1st coat.
3. Leave the treated surface should be kept damp for a period 5-6 days and protect from direct sunlight for initial period. For full cure, give 28 days' along with concrete.
4. After curing, cover the treated area with SmartCare Repair Mortar, application thickness of 10 - 15mm. One can add SmartCare Quartz Crystalline Admix in SmartCare Repair Mortar to get extra protection to crystalline coating.

Version No. VN14/08/2017. Please note that this datasheet supersedes all previous versions
For Feedback/complaints, write to Marketing Manager Services Asian Paints Limited, 6A, Shantinagar, Santacruz (E), Mumbai 400 055, India

DRY SHAKE APPLICATION: ON FRESH CONCRETE IN FLOORS, SLABS AND HORIZONTAL SURFACES

1. Sprinkle SmartCare Quartz Crystalline Coating onto the surface of fresh concrete when achieve green strength (1 kg powder per sqm.) with the use of a mechanical spreader/float, sieve or similar device after concrete is placed, consolidated, and leveled.
2. Work upon powder into the surface of the slab during the normal finishing process with a trowel.
3. If application is being done in direct sunlight, it is extremely important to cover the slab after final troweling with a rigid sheet of polythene.
4. Take care to see that the sheet is not in contact with the surface of the slab. This can be done by placing the sheet on bricks to ensure a gap between the slab and the sheet, which will allow air circulation.
5 Remove the sheet after 48 hours and water pond the treated area to cure regularly.

TECHNICAL INFORMATION

Properties	Results
Appearance	Grey coloured free flowing powder
Application	Brush or spray
Mixing ratio	Powder (5 parts): Water (2 Parts)
Hardening time	24 hrs
Coverage	0.75 – 0.85 kg/sq. mtr for 2 coats (can be varied depending on surface condition)

PRECAUTIONS

- Heavy traffic should be avoided until the surface is hardened for at least 5 days.
- Not recommended over moving joints and structures subjected to movements.
- SmartCare Quartz Crystalline Coating is effective in case of rigid concrete structure only.
- Cracks due to structure movement or load bearing movement can't be taken care by this product.
- This product is alkaline in nature & in powder form. During handling, suitable protection to be taken.
- Freshly applied crystalline waterproofing system must be protected from drying out too quickly in hot condition.
- Should not be exposed to freezing temperature immediately after application.

SAFETY FEATURES

- Kindly refer to the MSDS for Asian Paints SmartCare Quartz Crystalline Coatingwhich gives detailed information on safety measures.
- Store the container with the lid tightly closed in an upright position, in a cool & dry place.
- Keep out of reach of children and away from eatables.
- May be harmful if swallowed. In case of ingestion seek immediate medical attention.
- Wear eye protection during application. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- In case of skin contact immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
- Do not breathe vapour or spray. It is recommended to wear suitable nose pad during sanding and surface preparation to avoid dust inhalation.
- Do not pour leftover paint down the drain or in water courses.
- In the event of spills, contain spillage using sand or earth.

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