



# Mr. Care

## SMART SUPERIOR EXTERIOR QUARTZ PAINT

### DESCRIPTION:

Mr. Care by Skora Coatings is a state-of-the-art exterior architectural wall and facade coating specifically for use on concrete and masonry substrates. Mr. Care protects the substrate with excellent water repellence, while it also allows the substrate to breathe almost unhindered. This property minimizes the potential for peeling and flaking from entrapped moisture. The coating has a self-cleaning effect and excellent resistance to microbial attack; keeping the surface looking cleaner for a longer time.

The Fiber Glass binder is not just about water-repellence - its tough, quartz-like structure acts as "reinforcing" for excellent weather resistance that resists chalking and outlasts conventional paint systems; repaint intervals up to 10 years or more versus 7-8 years for that of conventional paints for significantly lower maintenance costs. Using only UV resistant inorganic oxide pigments that are highly resilient to UV exposure, Mr. Care comes in a standard range of 175 Smart earthy, fade-resistant colors suited perfectly for concrete and masonry surfaces and a natural look that conveys quality. While durability and protection are key benefits of Mr. Care, it is the look and finish that people notice; the mineral matte surface eliminates gloss and side sheen and colors appear clean and true whilst helping hide surface irregularities in mineral substrates.

Exterior use only. Not for surfaces horizontal (roofs, decks), that can pool water or below-grade prone to hydrostatic pressure.

### KEY FEATURES :



#### Smart Quartz-Shield

Quartz Paint technology forms a Quartz shield that develops a repellent nature for the surface of the substrate that does not allow water to get in to the wall itself as it's rendered hydrophobic which leads to a waterproof surface.



#### Smart Clean

Smart Clean technology of ours keeps the structure looking cleaner for longer and gives our coatings a significant advantage over other textured coatings where dirt accumulation can be high and visually evident.



#### High Washability

Our Smart Clean technology has been formulated to produce a high beading effect that lets water trickle down so you can wash surface of the wall anytime to keep them clean and dirt free.



#### Dirt-Resistant

We developed this technology keeping in mind the convenience it would bring to you in terms of cleaning as each coating has an in-built self-cleaning property that's committed to keeping your walls looking clean and dirt-free.



#### Scrub Resistant

The wearing away or removal of the paint film when scrubbed with a brush, sponge, or cloth is impossible with our smart clean technology.



#### Stain Resistant

The Smart Clean technology of ours keeps the structure looking cleaner for longer and gives our coatings a significant advantage to keep any stains away.



#### Anti Efflorescence

Smart Quartz Shield and Smart Hydrophobic Technology stops the migration of lime water molecules ( $\text{Ca}(\text{OH})_2$ ) which are the reason behind the formation of the crystalline deposits of soluble salts causing Efflorescence on the walls.



#### Perfect Finish

Our paint is also formulated to form thick layers of coating which do not thin over time like conventional paints do in the market due to wear and tear, wind erosion and pollution. And thus our paint is not only smart but perfect finish.

## AREAS OF USE:

Caste-in-place concrete	Recommended	Yes
Pre caste concrete	Recommended	Yes
Cement Stucco / Plaster	Required	Yes
Skim Coat	Required	Yes
Brickwork	Required	Yes
Blockwork	Required	Yes
Fibre cement sheet	Required	Yes
Stone	Required	Yes
Wood	Acrylic Primer	Yes
Metals	Acrylic Primer	Yes
Glass	Acrylic Primer	Yes
PVC	Acrylic Primer	Yes
Previous Painted	Required	Yes

## TEST AREA :

- Test each type of surface for suitability and results including color and finish before overall application.
- Make up a test area of a least 2 ft x 2 ft on each type of surface applying application guidelines. Let Coating cure on each test area before inspection and check colour finish and adhesion.
- If priming with Mr. Protect apply test area and check penetration and surface residue once dry. Excess residue, minimal penetration and or poor adhesion may point to previous coating treatment or residual curing compound and may negate use of primer.
- Keep test reference available throughout project.

## SITE PREPARATION :

Ensure all property, vehicles and surfaces not set for coating are protected from product, residue, splash and wind drift. Use drop cloths or other proven protective materials. Protect and/or divert pedestrian and vehicular traffic.

## SURFACE PREPARATION :

All surfaces should be clean and free from contaminants such as dust, dirt and release oil, any loose concrete or grout removed. Surfaces may be slightly damp but not wet.

Allow new concrete, masonry and stucco to cure a minimum of 14 days prior to application. Allow cementitious patch repairs to cure a minimum of 7 days prior to application. If needed, pressure clean to remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, peeling and defective coatings, chalk, form release agents, moisture curing membranes, etc. Remove all mildew.

For tilt-up and poured-in-place concrete, commercial detergents and sandblasting may be necessary to remove sealers, release compounds to create an adequate key. Apply to concrete surfaces with pH level up to 10. For coastal area structures check for salt contamination.

**Primer • Porous Surfaces :** Stucco, skim coat, concrete block, fiber cement sheet, brick and stone surfaces require priming with Mr. Protect by Skora Coatings prior to Mr. Care application.

**Primer • Non-Porous Surfaces :** For cast-in-place concrete and precast concrete priming is recommended with Mr. Protect by Skora Coatings prior to Mr. Care application.

### Previously Painted Surfaces :

a) Good Condition : The existing paint must show no signs of cracking, peeling or flaking. The surface must be cleaned to remove all dirt and contaminants by washing with an appropriate cleaner, rinse thoroughly and allowed to dry. If surfaces are glossy, abrade with wire brush or sand dull to create an adequate key.

b) Poor Condition : Remove all cracking, peeling and poorly adhered paint. Clean surface and remove all dirt and contaminants.

**WARNING :** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator

**Stains :** Address causes of efflorescence and other moisture-related stains. Stains caused by water, smoke, ink, pencil, grease, etc. should be cleaned as practical then sealed with a suitable sealer.

### Cracking :

a) Hairline Cracks - Paint cracked areas first by brush filling to be flush with surface prior to the first coat.

b) Larger Cracks - either patch with suitable filling compound to match surface texture or add fine silica sand to paint to make a putty. Fill in thin layers to be flush with the surface.

Holes, Honeycombs and Voids

Fill bug holes, air pockets and other voids with a suitable filling/patching compound. Match texture of the surrounding substrate (i.e. smooth for in-situ concrete, grainy for stucco).

## APPLICATION EQUIPMENT :

Use roller, brush or conventional and airless spray.

**Brush :** Use a nylon/polyester brush. Avoid over-brushing that causes air bubbles.

**Roller :** Use 2"- 9" nap synthetic roller cover on semi-rough surfaces such as precast; 3/4" to 6"-9" on rough surfaces such as concrete block and textured stucco. Avoid rapid rolling that causes air bubbles.

**Spray :** Airless Pressure, minimum 2300 psi TIP, minimum .025" Spray using a "cross coat" technique (horizontal pass followed by a vertical pass).

**Cleaning :** During application, if leaving equipment to stand, the spray heads should be left to soak in water to prevent blocking.

All tips, spray head, rollers and brushes must be cleaned with large amounts of water at conclusion of work; spray equipment to be also flushed with water. After cleaning in water, flush spray equipment with mineral spirits to prevent rusting of the equipment.

Use a solvent such as acetone to remove old dried material or use mechanical means. If equipment, such as spray heads, is accidentally left containing product, let soak in water for 24–48 hours. After soaking, run equipment or strip down if necessary; refer equipment manufacturer's guidelines for care and cleaning.

## THEORITICAL COVERAGE :

Minimum of two coats @ 50 -60 sq.ft/lit

- Surface texture and substrate porosity affects application rate; apply a test area to determine actual coverage.
- Some deep tint base colors may require three coats to achieve full opacity.

## PRACTICAL COVERAGE :

Minimum of two coats @50-60sq.ft /lit smooth cast-in place concrete surface\*. Minimum of two coats @ 60-70 sq.ft /lit high compressive strength precast concrete smooth finish beams\*. (\*apply test area to determine actual coverage given temperature, humidity and substrate conditions)

Note: Whilst touch dry within 15 minutes or so, and recoated within 24 hours, system requires 7-10 days to fully cure. There is no time limit to when the second coat needs to be applied by.

## COLOR RANGE :

175 Smart Colors – Skora Smart Color Guide Custom color matching, including 1500+Standard Swatches (matte/flat finish) Colors, available on request.

## COATING APPLICATION NOTES :

- Allow primer to cure for 6 hours Mr. Protect prior to painting.
- Mix well prior to use, do not dilute.
- Use roller, brush or airless sprayer for a uniform first coat at 5 mils WFT; let dry for up to 12 hours (see RECOAT TIMES).
- Apply second coat uniformly at 5 mils WFT.
- Protect from rain for at least 12 hours or until coating is thoroughly dry/cured. Apply when ambient and substrate temperatures are between 10°Celsius to 40°Celsius
- Do not apply if imminent weather conditions may cause improper curing of product.
- Mr. Care Quartz Paint showing water beading (Hydrophobic) effect after 2-3 Monsoon shower, for immediately hydrophobic effect use coat of Mr. Finish Smart Colorless Hydrophobic Topcoat.

## PRODUCT INFORMATION :

Colour	175 smart Colours - Can Colour Match
Finish	Mineral Matte
Solids, by Weight	55% +1- 5%
Solids, by Volume	43% 4%
Typical Thickness	2.2 mil (56 pm) DFT / 5.0mil (125 pm) WFT per coat
Theoretical Coverage	30 to 40 sq.ft / Litr / 2 Coats
Practical Coverage - Allow Substrate Condition/Texture and Applicable Loss Factors	

## TYPICAL PERFORMANCE DATA :

Wind Driven Rain Resistance ASTMD6904-03(13)(TT-C-555B)	Pass, No weight change, no noticeable defect in the Coating
Water Vapour Transmission ASTM Rate w24-value (kg/m2ho,5)	0.02
Tensile Adhesion on concrete ASTM D7234-12 ASTM D4541 **	Average Pull --off Strength of 394.6 psi,2.72N/nm2 Average Pull --off Strength of 710 psi,4.9N/nm2
Mold Resistance ASTM D3273-12 (after 500-hrs Accelerated weathering) ASTM D4587-11cycle 2 QUV Exposure	No Evidence of mold growth (28-days)
Scrub Resistance ASTM Method	153
Water Vapour Permeability SD - value (m) ASTM Method	0.05
Accelerated Weathering ASTM D4587-11Cycle 3000-hrs QUV exposure	No Overall change overall change observed in coating NO cracking, or Other defects noted
Dirt Pickup Resistance	98,37
Freeze- Thaw Resistance 50 cycles to West Virginia DOT protocol	No chalking, checking, cracking or other deleterious effects
Salt Spray Resistance ASTM bli7 1000 -HOURS	No chalking, checking, cracking or other deleterious effects
Solids by weight 'ASTM D2369-03(08)	53.61%*
Solids By Volume 'ASTM D2697-03(08)	39.91%*
Voc -D3960-05	23 g/lit*

## APPLICATION :

Application Method	Roller ,Brush and Conventional and Airless Spray
Coats	2 Coats
Priming	Mr. Protect on porous surfaces and in higher temperature regimes to help assist with wet edge
Drying time @ 25°C (77 F) & 50% Relative Humidity	Touch dry 15-20 minutes
	Water Resistant 6 hours Recoat Within 2 to 4 hours of becoming touch dry touch dry overnight
Temperature range (Surface Temperature)	10°C to 32°C
Clean up	Water

## APPLICATION NOTES :

**Colder Temperatures :** At cooler temperatures, and the need for water based paint to coalesce properly when temperatures drop below 10°Celsius, within observed application limitations there can be a little latitude taking into account humidity, dew point and slight prevailing breezes. This is aided somewhat by Quartz paint not forming a "closed film" as it dries; its breathability allows entrapped moisture to outgas.

**Substrate Temperature Conditions :** With low overnight temperatures, and propensity for a concrete to slowly warm in rising ambient temperature/exposure to the sun, the surface must reach at least 7 degree Celsius before application of Mr. Care paint, moisture to outgas.

Prior to proceeding, apply a test patch once the substrate surface temperature has reached at least 7°Celsius and check for spread/film thickness/opacity, touch drying time and adhesion before proceeding with the general application making adjustments if necessary (e.g. allow the substrate surface temperature to reach at least 10 degree Celsius).

The key barometer is drying time. Under favorable drying/curing conditions

Mr. Care is usually touch dry within 15-minutes. If paint comes off on one's finger when run over a painted area 45-60 minutes after being painted then drying conditions may not be suitable. Also, the day following application the paint should be checked in random areas for adhesion and thickness/opacity as a further assessment of the drying/curing process. There is no time limit to when the second coat is applied.

### When Rolling :

- Always box paint for a given batch and section to be painted
- Brush out runs or drips.
- When applying the final coat always finish to an edge.
- Avoid painting in hot direct sunlight or on dry/hot windy days.
- Only touch up where the same tin or boxed batch has been used.
- Do not touch-up with unboxed or different pails.

### Recoat Times :

The 12-hour wait period before applying the second coat Mr. Care is a value to cover a scope of applications including those in adverse weather conditions such as cool temperatures, still wind, high humidity and near dew point during application and the subsequent drying/curing period.

Recoat times can be substantially reduced under favorable drying/ curing conditions. Such conditions broadly encompass application to a dry substrate in ambient temperatures ranging from 18°Celsius to 30°degree Celsius and lower humidity levels; a light breeze can also assist.

**2 Hour Recoat :** If the first coat of Mr. Care is touch dry within 15-minutes; allow further 2 hours to dry/cure prior applying second coat Mr. Care.

**4 Hour Recoat :** If the first coat of Mr. Care is touch dry within 30-minutes; allow further 4 hours to dry/cure prior applying second coat Mr. Care.

**Note:** The full plane of applied material needs to be touch dry with the last area of application usually last to dry and /or there are areas with a slightly higher WFT (wet film thickness).

## STORAGE AND HANDLING :

Store in a cool, dry place. Always seal container after use. Do not alter or mix with other chemicals. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Keep from freezing film thickness). Use appropriate safety and job site controls during application and handling; read the full label and SDS for precautionary instructions before use.

**GUARANTEE :** Up to 12 Year durability where substrate is sound and manufacturer's recommendations have been followed. Refer guarantee and disclaimer for details.

**PACKAGING :** 20 liter Bucket and Custom packaging upon request.

**Note :** The information presented is as a guide only and is correct to the best of our knowledge at the time of publication. It should not be considered as a definitive approval for suitability for a particular purpose. Please contact the manufacturer, distributor or approved applicator for confirmation of suitability. The specifier or purchaser shall be responsible for conducting tests to determine the suitability of this product for their particular purpose.



Updated on : 20/10/2020. Please note that this data sheet supersedes all previous versions.

## SKORA COATINGS

Plot No. H-15, M.I.D.C., Satara, Pin Code 415004 | Consumer Relations Manager Tel. 02162 - 244310

Email: reachout@skoracoatings.com | Web: www.skorapaints.com