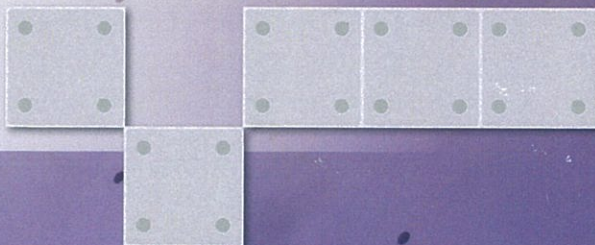


# SKK FAIR-FACED CONCRETE COATING SYSTEM





# OPEN UP NEW POSSIBILITIES OF FAIR-FACED CONCRETE

A fair-faced concrete finish with a unique texture and excellent aesthetic expression is widely adopted for commercial construction and housing worldwide as a popular high-end design. However, it is easily affected by wind and rain as it does not have a protective layer, and also there is a problem such as occurrence of honeycombs due to shoddy work, which it troubled architecture professionals. Under these circumstances, we developed new innovative protection coating and decorative coating to solve these problems by using Super durable special coating and made it possible to maintain and reproduce the beautiful appearance of concrete buildings.

## SKK FAIR-FACED CONCRETE COATING SYSTEM

### Fair-faced concrete protection coating system

maintains beautiful appearance of fair-faced concrete for a long period of time by using a special clear coating without impairing the texture of concrete.






You can choose from four variations of system according to the application.

### Fair-faced concrete-look coating system

creates a fair-faced concrete-look finish by using a unique decorative coating. Since this is a colouring system completely hides the substrate, it is perfect for renovation of fair-faced concrete building requiring a large scale of repair work.

You can choose from two variations of system according to the application.

### List of features of system

System \ Feature												
CERAMI CRETE	●		●	●		●	●	●	●	●		
CERAMI CRETE GUARD	●		●	●	●	●	●	●	●	●		
MICRON GUARD RC	●		● * Depends on topcoat	●	●		●	●	●	●		
CERATIGHT RC	●	●		●	●		●	●	●	●		
CERAMI RC-FR	●		●			●	●	●	●	●	●	●
NEW GRANI ELEGAN RC	●	● * Depends on topcoat				●	●	●	●	●	●	

### Meaning of icons in this brochure

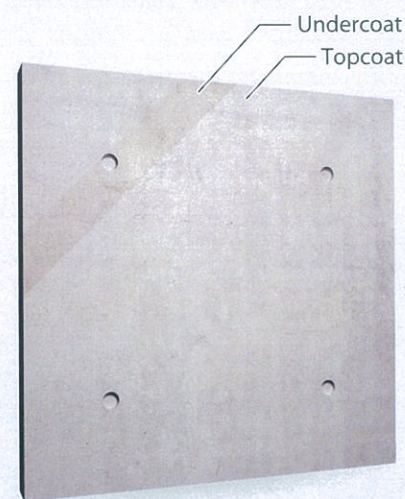
	Super durability, super weather resistance		Preventing water absorption		Acid resistance	<b>Resin</b>		<b>Gloss</b>	
	Super dirt resistance		Environmentally friendly & safe		Anti-carbonation		Silicone		100% Gloss
	Dirt resistance		Colour variation		Short work period		Fluorine		50% Gloss
	Moisture permeability		Alkali resistance		Easy workability				30% Gloss
									Matt



# CERAMI CRETE system

The system is comprised of newly developed water-based, penetrating, water absorption preventive primer, CERAMI CRETE PRIMER and super durable water-based acrylic silicone resin clear, or super durable, dirt resistant, water-based fluorine resin clear. CERAMI CRETE PRIMER provides water absorption preventive layer and excellent sealing effect. With excellent prevention of water absorption, permeability and weather resistance, the system prevents efflorescence, carbonation, and protects fair-faced concrete under severe conditions over a long period of time.

## System composition



\* For CERAMI CRETE F system, mid-coat process will be added.

## Features



Super durability, super weather resistance



Dirt resistance



Moisture permeability



Environmentally friendly & safe



Colour variation



Alkali resistance



Acid resistance



Anti-carbonation

Type	Water-based
Resin (Topcoat)	Si F
Gloss	G 30
Finishes	Clear finish / Colour clear finish

## Suitable substrates

Fair-faced concrete

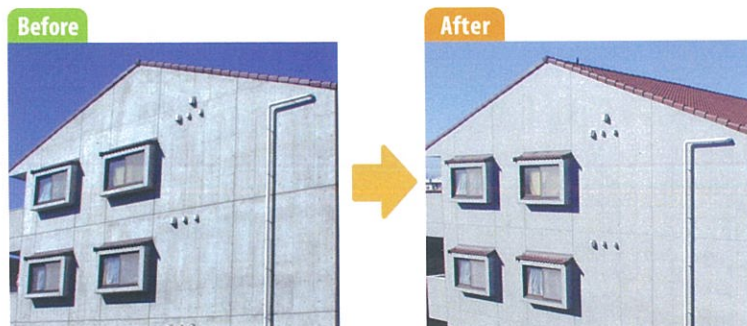
(can not be applied on moulding boards, GRC panels and PC panels)

\* Suitable application area is unpainted or the substrate on which penetrating, water absorption preventive material is applied. When a film forming clear finish is applied on the substrate, please make inquiries to the nearest sales office.

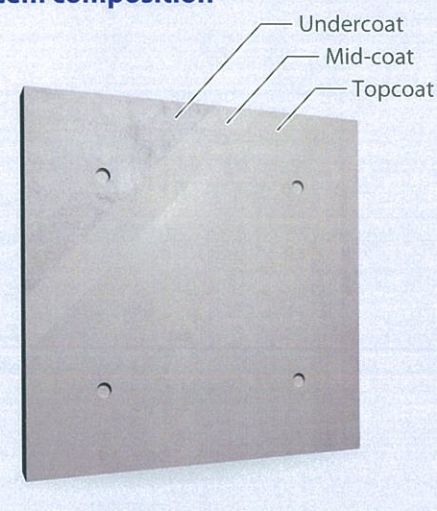
## CERAMI CRETE TR system (for renovation)

CERAMI CRETE TR system is a dedicated renovation system comprised of a special mid-coat layer which can restore the beautiful appearance of fair-faced concrete and a super durable topcoat layer which prevents surface deterioration of a building by ultraviolet rays.

## Example of renovation



## System composition

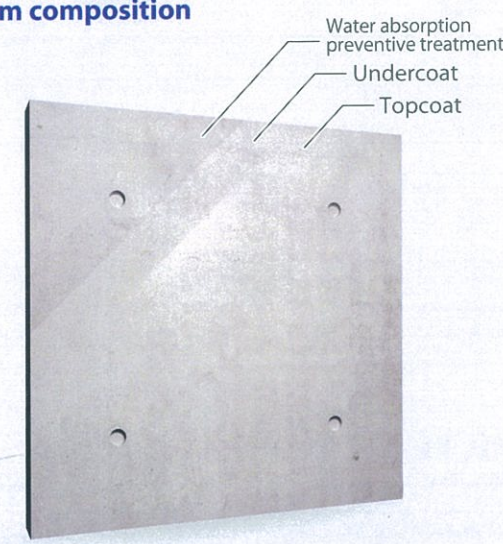


# CERAMI CRETE GUARD system

CERAMI CRETE GUARD system provides excellent water absorption preventive property while maintaining the beautiful appearance of fair-faced concrete by using a weak-solvent based silane compound, penetrating, water absorption preventive material "CERAMI CRETE GUARD" which penetrates deeply into concrete surface.

By using water-based acrylic silicone resin primer which has excellent adhesion and super durable clear coating on the water absorption preventive layer, it provides excellent protection performance against fair-faced concrete walls.

## System composition



## Features



Super durability, super weather resistance



Dirt resistance



Moisture permeability



Preventing water absorption



Environmentally friendly & safe



Colour variation



Alkali resistance



Acid resistance



Anti-carbonation

Type	Mixed of water-based and weak solvent-based
Resin (Topcoat)	Si F
Gloss	G 30
Finishes	Clear finish / Colour clear finish



Preventing water absorption

Water absorption test graph

Less than  
 $\frac{1}{100}$

0.09  
CERAMI CRETE GUARD

1.0  
Unpainted

The ratio is accordance with NSKS-004 (Japan Building Coating Material Association Standard); Testing of water absorption for water repellent materials.

## Suitable substrates

Fair-faced concrete

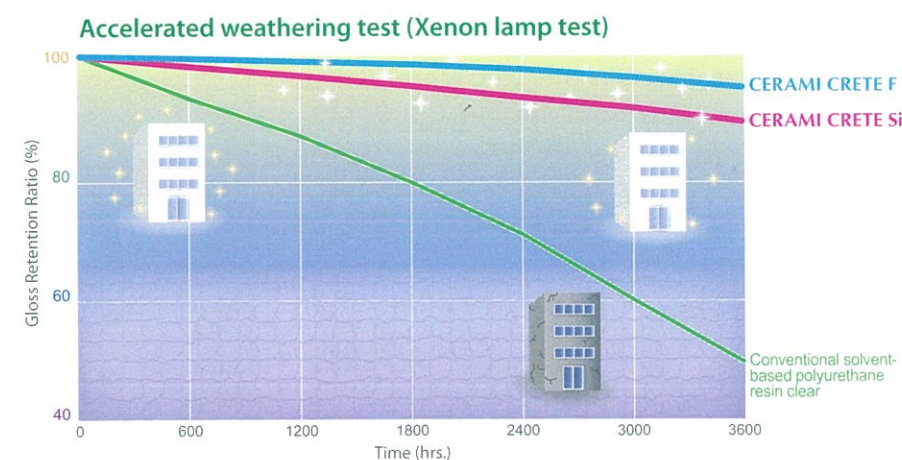
(can not be applied on moulding boards, GRC panels and PC panels)

\* Suitable application area is unpainted or the substrate on which penetrating, water absorption preventive material is applied. When a film forming clear finish is applied on the substrate, please make inquiries to the nearest sales office.



Super durability, super weather resistance

Topcoating with water-based acrylic silicone resin or water-based fluorine resin having excellent paint film performance prevents deterioration of concrete by ultraviolet rays or acid rain. It maintains the beautiful appearance of fair-faced concrete for a long period of time.

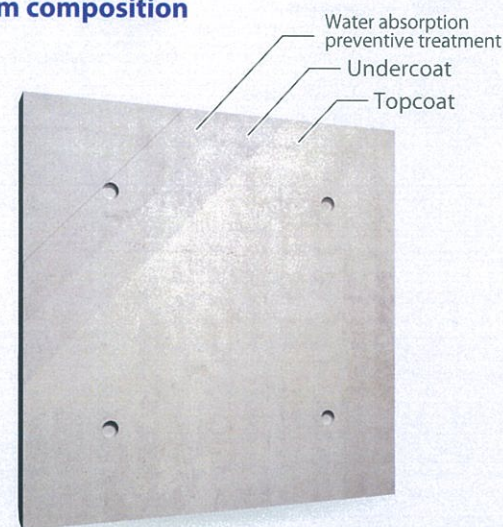




# MICRON GUARD RC system

MICRON GUARD RC system is a protection system that is comprised of super durable, super weather resistant clear coating and penetrating, water absorption preventive material. It forms a strong preventive layer against water absorption inside the concrete and prevents wet look of the surface, and emphasizes the natural colour of fair-faced concrete. You can choose from two variations of finishing; super durable, super weather resistant fluorine resin or acrylic silicone resin for topcoat.

## System composition



## Features



Type	Solvent-based
Resin (Topcoat)	Si F
Gloss	G 50 30 M
Finishes	Clear finish / Colour clear finish

## MICRON GUARD

(Penetrating, water absorption preventive material)

MICRON GUARD is a silane compound, transparent, weak-solvent based, penetrating, water absorption preventive material. It deeply penetrates inside the concrete and forms a strong preventive layer against water absorption by chemical reaction.



## Suitable substrates

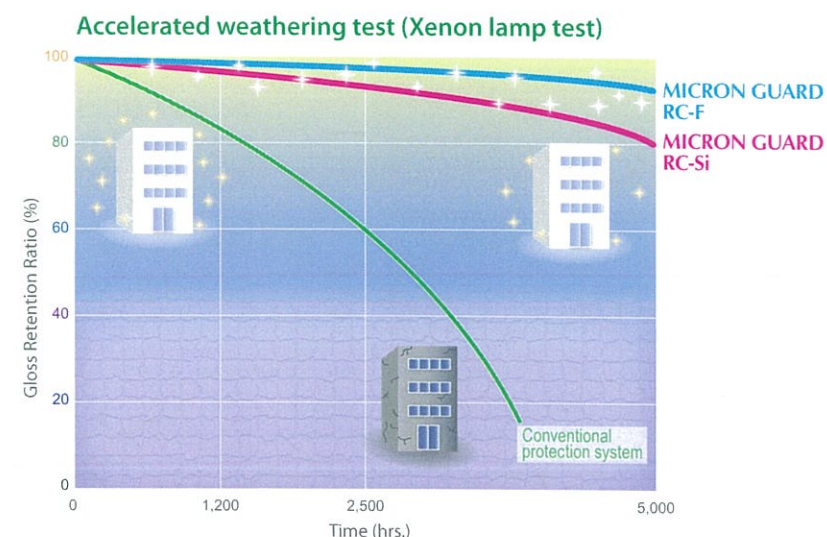
Fair-faced concrete (using decorative moulded frame), GRC panels, PC panels and moulding boards\*1, etc.

\*1 Conditions may be applied for application. Please make inquiries at the nearest sales office.

\* Suitable application area is unpainted or the substrate on which penetrating, water absorption preventive material is applied. When a film forming clear finish is applied on the substrate, please make inquiries to the nearest sales office.

## Super durability, super weather resistance

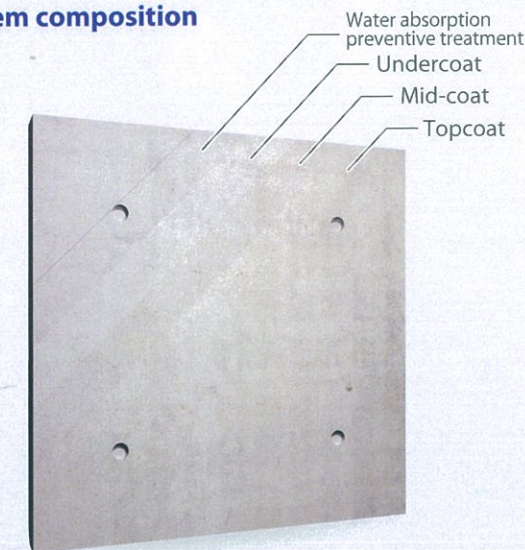
Topcoating with super durable, super weather resistant clear coating prevents deterioration of concrete by ultraviolet rays or acid rain. It maintains the beautiful appearance of fair-faced concrete for a long period of time.



# CERATIGHT RC system

CERATIGHT RC system uses a super dirt resistant clear coating for topcoat, so the stains by exhaust gas or dust in the atmosphere are difficult to adhere. Even if they adhere, stains are gradually removed by rain. It can maintain the beautiful appearance of fair-faced concrete for a long period of time. Same as MICRON GUARD RC system, it forms a strong preventive layer against water absorption inside the concrete and prevents wet look of the surface, and emphasizes the natural colour of fair-faced concrete. You can choose from two variations of finishing; super durable, super weather resistant fluorine resin or acrylic silicone resin for topcoat.

## System composition



## Features



Type	Solvent-based
Resin (Topcoat)	Si F
Gloss	G 30 M
Finishes	Clear finish / Colour clear finish

## Suitable substrates

Fair-faced concrete (using decorative moulded frame), GRC panels, PC panels and moulding boards\*1, etc.

\*1 Conditions may be applied for application. Please make inquiries at the nearest sales office.

\* Suitable application area is unpainted or the substrate on which penetrating, water absorption preventive material is applied. When a film forming clear finish is applied on the substrate, please make inquiries to the nearest sales office.

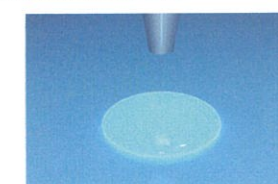


## Super dirt resistance

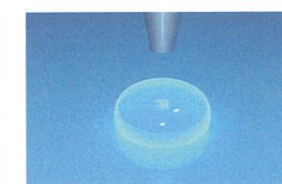
### Hydrophilic Film

[ Hydrophilic effect ]

As the film is hydrophilic, rainwater washes away dirt.

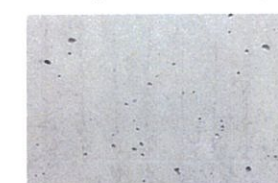


CERATIGHT RC

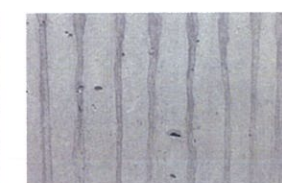


Conventional Coating

[ Extent of pollution to coating surface ] (After 6 months of outdoor exposure)



CERATIGHT RC



Conventional Coating

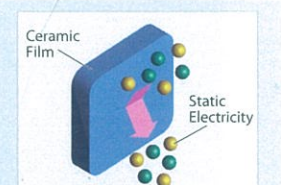
## Triple Actions

Triple actions bring about effective dirt-resistant performance.

### 1 Repel Stain

#### Low Chargeability

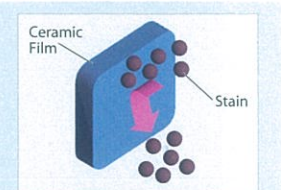
Reducing static electricity which charges the film surface prevents the adhesion of dirt particles.



### 2 Resist Stain

#### High Cross-linking Density and Hardness

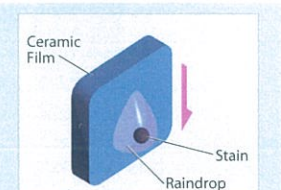
Film degradation by collision of contaminants has been reduced due to cross-link density and the adhesion of dirt on the film is prevented.



### 3 Remove Stain

#### Hydrophilic Property

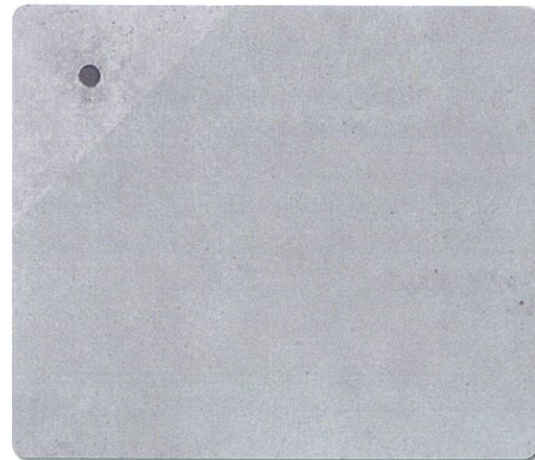
Dirt is washed away with rain water due to good hydrophilic film.



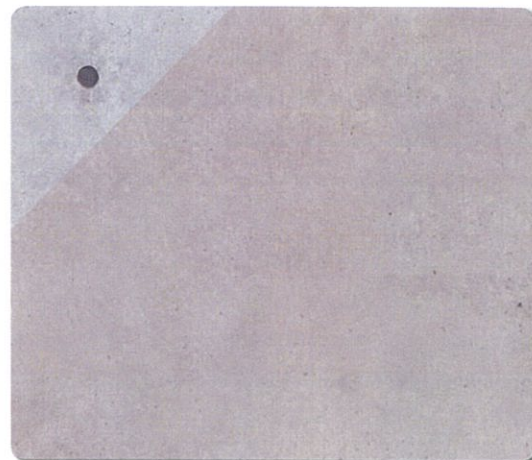


## Standard colours

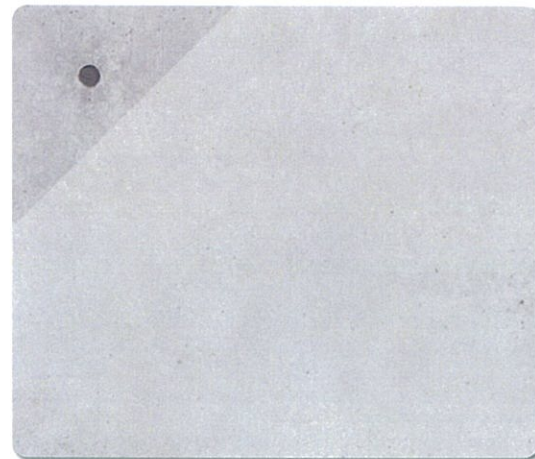
(Common to all fair-faced concrete protection coating systems)



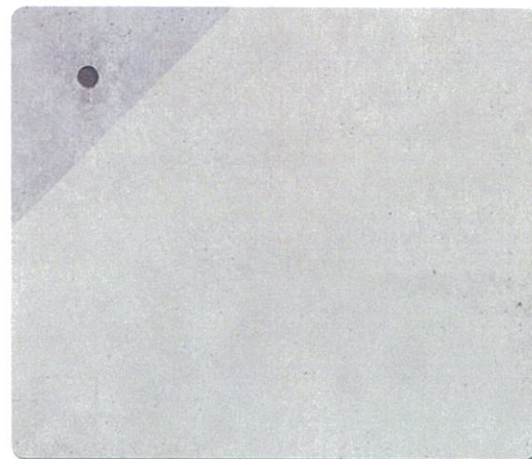
Clear finish - 30% Gloss



Colour Clear finish - 30% Gloss  
CRP-01



Colour Clear finish - 30% Gloss  
CRP-02



Colour Clear finish - 30% Gloss  
CRP-04



Colour Clear finish - 30% Gloss  
CRP-06

### MICRON COLOUR CLEAR PATCHING MATERIAL / CERAMI CRETE PATCHING MATERIAL



White



WC-1

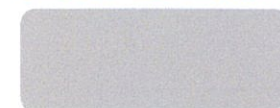


WC-2



WC-3

### CERAMI CRETE FRESH (for CERAMI CRETE TR system)



Fair-faced concrete substrate patching system

## MIRAC PATCHING system

There are many cases requiring repairs on the concrete surface such as honeycomb, hole, wrong colour, etc.. MIRAC PATCHING system can touch up the defective part of substrate to the same colour as the concrete surface by using a cement filler "MIRAC FOUND Series" and a dedicated substrate patching material "MIRAC PATCHING MATERIAL". It can be used together with fair-faced concrete protection system.

### Patching procedure

- 1** Touch up the defective part with  
MIRAC FOUND KC-3000 or KC-4000



- 2** Touch up the defective part with  
MIRAC PATCHING MATERIAL



- 3** Smoothen the surface with  
sandpaper



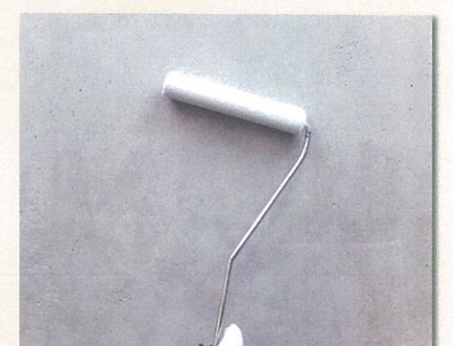
- 4** Apply water absorption preventive  
material



- 5** Apply CERAMI CRETE PATCHING  
MATERIAL



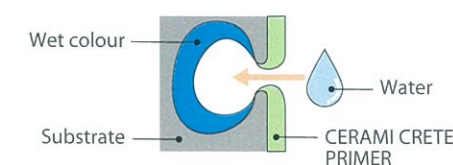
- 6** Apply topcoat



MICRON GUARD RC system: MICRON GUARD  
CERATIGHT RC system: MICRON GUARD  
CERAMI CRETE TR system: CERAMI CRETE PRIMER

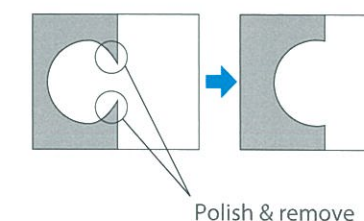
### Precaution

If there is any honeycomb, hole and cracking, repair them prior to application. Even if honeycomb seems small on the surface, there may be a big hollow inside the surface. In that case, CERAMI CRETE PRIMER cannot work effectively and it may result to wet look around honeycomb.

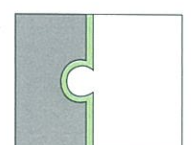


### How to repair

Enlarge the honeycomb hole by polishing, and repair them according to the size of hole.



Hole size:  
1mm or less



Apply directly

Hole size:  
1mm or more



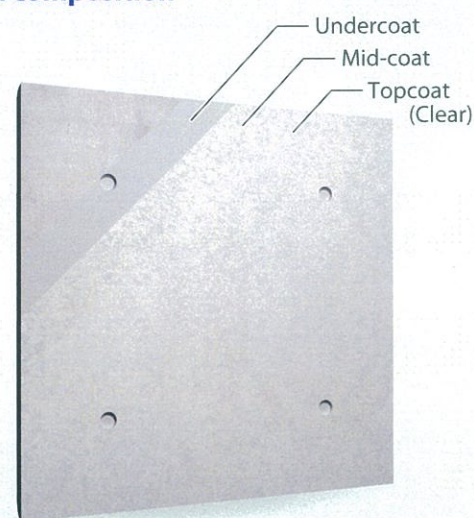
Repair with MIRAC  
PATCHING MATERIAL or  
cement rendering, etc.



# CERAMI RC-FR system

CERAMI RC-FR system is a new concrete-look coating system that revives the feel and texture of fair-faced concrete with a unique coating. Acrylic silicone resin is adopted for mid-coat and clear topcoat. Fluorine resin based clear topcoat can be also chosen, so it provides excellent weather resistance and prevents carbonation. The full water-based system from undercoat to topcoat can be applied with a roller. It is excellent in on-site workability and safety.

## System composition



## Features



Super durability, super weather resistance



Acid resistance



Dirt resistance



Anti-carbonation



Environmentally friendly & safe



Short work period



Colour variation



Easy workability



Alkali resistance

Type	Water-based
Resin (Topcoat)	Si F
Gloss	G 30
Finishes	Clear finish

## Suitable substrates

Fair-faced concrete (new building, renovation), Cement mortar, GRC panels, PC panels, and moulding boards, etc.

## Application procedure

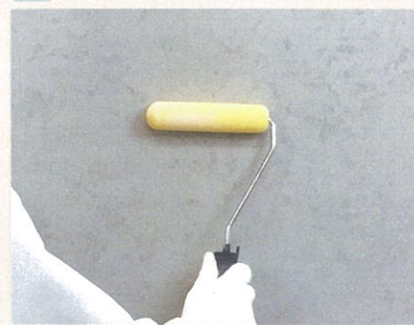
1 Apply undercoat



2 Apply main coat using a special roller



3 Apply topcoat

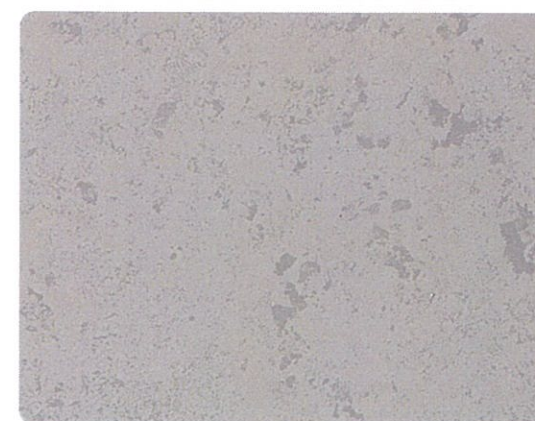


## How to create patterns on a special roller

In order to revive a natural texture of fair-faced concrete, use a special roller with patterns to apply mid-coat. How to create patterns on a special roller is to nip off the sponge of a roller by hand in a mottled pattern.



## Standard colours



BFR-01/FFR-01



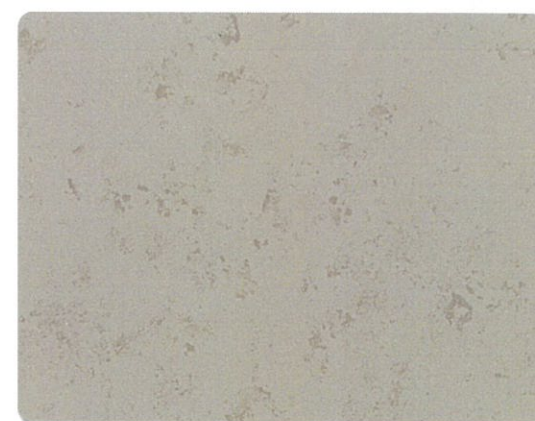
BFR-02/FFR-02



BFR-06/FFR-06



BFR-07/FFR-07



BFR-08/FFR-08



BFR-09/FFR-09

## Tie hole



PFR-01



PFR-02



PFR-03



tem - Decorative pattern coating specification

# NI ELEGAN RC system

n is a new system providing  
niform and natural finish. The  
while maintaining beautiful  
ete for a long period of time.  
es the substrate, it is perfect for  
aced concrete building due to

## Features



Super durability, super  
weather resistance



Acid resistance



Super dirt resistance  
\* Depends on topcoat



Anti-carbonation



Colour variation



Short work  
period



Alkali resistance

Undercoat  
Mid-coat  
Topcoat  
(Clear)

Type	Weak solvent-based
Resin (Topcoat)	Si F
Gloss	G 30
Finishes	Clear finish

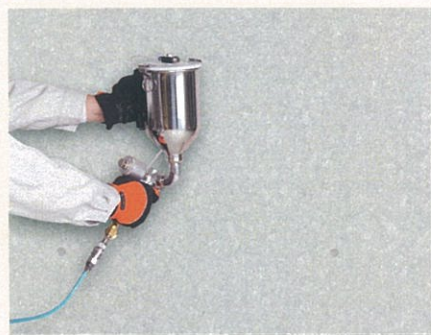
## Suitable substrates

Fair-faced concrete (new building, renovation), Cement mortar,  
PC panels, ALC panels and various boards, etc.

2 Apply main coat



3 Apply topcoat

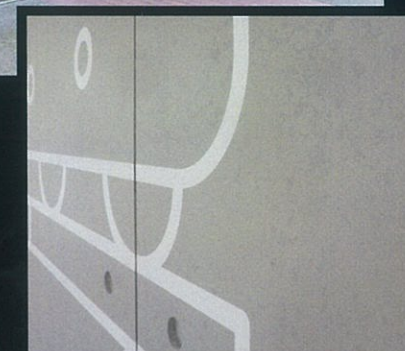


## JOB REFERENCES

Mc Donald's at Fortune Plaza (Hong Kong)  
System: CERAMI RC-FR



Mc Donald's at Admiralty Centre (Hong Kong)  
System: CERAMI RC-FR



Digital Beijing Building (Beijing, China)  
System: CERAMI CRETE





# JOB REFERENCES

Fukuoka International Congress  
Center (Fukuoka, Japan)  
System: CERAMI RC-FR



Fire Department of Satsumasendai  
(Kagoshima, Japan)  
System: NEW GRANI ELEGAN RC



Institute for Information and Communications Policy  
(Tokyo, Japan)  
System: CERAMI CRETE



Elementary School (Hyogo, Japan)  
System: NEW GRANI ELEGAN RC



Kyushu University Gymnasium (Fukuoka, Japan)  
System: NEW GRANI ELEGAN RC



Ishikawa Pref. University (Ishikawa, Japan)  
System: CERAMI CRETE



Niigata BIG SWAN Stadium (Niigata, Japan)  
System: CERATIGHT RC







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**Factory : SINGAPORE FACTORY**

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### PT. SKK KAKEN KONSTRUKSI

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Jakarta, Indonesia 12920

Tel: (62)21-5210401(5210402) Fax: (62)21-5210403

**Factory : PT. SKK KAKEN INDONESIA**

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Web: <http://www.skkhk.com.hk>

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Suite 13.01, Level 13, Centrepoint South, The Boulevard, Mid Valley City,  
Lingkaran Syed Putra, 59200 Kuala Lumpur, Malaysia

Tel: (60)3-2282-9800 Fax: (60)3-2282-9810

Web: <http://www.skk.com.my>

**Branch Office:** Johor Bahru, Kuantan, Penang

**Factory : SKK CHEMICAL (M) SDN. BHD.**

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Tel: (66)2-652-0600(0585)(0858) Fax: (66)2-652-0639

Web: <http://www.skk.co.th>

**Branch Office:** Chiang Mai

**Factory : SKK CHEMICAL (THAILAND) CO., LTD.**

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Tel: (86)21-6209-9169 Fax: (86)21-6209-9189

Web: <http://www.skk.com.cn>

**Branch Office:**

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Chongqing, Kunming, Nanjing, Suzhou, Hangzhou, Hefei, Henan

**Dealer :**

**SIKOKU KAKEN (SHANGHAI) CO., LTD. First Main Branch**

**Factory :**

**SHANGHAI FACTORY**

**SIKOKU KAKEN (LANGFANG) CO., LTD.**