

TECHNICAL DATA SHEET

Bonnflon GT-SR

Emulsion of fluoropolymer

Product Description

A single pack protective and water base fluoropolymer decorative topcoat which provides low VOC contents, outstanding resistance against weathering and ultraviolet rays and hydrophilic to reduce rain stain. Due to its good adhesion and easy application that provides a good reason for using on varies kind of substrates.

Bonnflon GT-SR, has improved about restraint of photocatalytic reaction of titanium oxide that had often been seen in a particular status environment.

In a particular status environment (Severe environments such as High temperature, High humidity, Coast areas, Isolated islands).

Features & Benefits

- Excellent alkaline resistance
- Excellent weatherability resistance
- Excellent UV resistance
- Excellent water resistance
- Reduce stain stripes by rain
- Excellent washability
- Excellent adhesive strength
- Easy to apply

Typical Painting System		
Preparation	System	
Surface should be smooth, clean and dust free.	Sealer	Bonntile New N-Sealer (1 coat)
	Intermediate	Bonnflon Water Base Intermediate Coat (1 coat)
	Topcoat	Bonnflon GT-SR (1 coat)

Surface Treatment & Condition Requirement

New Surface

- Substrates must be properly cured before applications.
- Application surface must be smooth and free of voids or sharp projections.
- Any application surface such as precast concrete, with excess pinholes, honeycomb, cracks, uneven or porous condition, should be filled up prior to the application.
- Any application surface, with laitance, efflorescence, dust, rust, oil grease, curing agent etc. must be removed completely by brushing, sanding or other effective means.
- Recheck surface after repair to assure satisfactory condition prior to Bonnflon application.

Old Surface

- All loose coating on the application surface should be removed by wire brushing, Sanding or other effective means.
- Any laitance, efflorescence, dust, rust or oil grease must be removed completely by brushing, sanding or other effective means.
- All defective areas, hollow plasters and spoiling concrete must be hacked off.
- Defective wall surfaces must be repaired by filling cracks or re-plastering of hacked off portions.
- To paint areas must be cleansed by high pressure water jet at 1,500 psi and all surfaces should be of the sound, clean, dry and sufficiently smooth that accepted as an appropriate substrate for the application of Bonnflon Products.

Remarks:-

- The recommended coverage rates, including those of normal wastage, are for reference only. Actual coverage may vary depending on the working condition of the site, the degree of evenness and smoothness of the substrate surface, and the pattern of the texture sample as selected and approved by the architect or client.
- We reserve the right to change or adjust the composition of material used in the specification of our products due to our constant research and development to improve of the quality of our products.



Application Surfaces

It is suitable for the application to exterior /interior surfaces of the following substrates:-

Precast Concrete
Poured in Place Concrete
Plaster (Mortar), Stucco, GRC, Tile Filler
Existing paint film

Application Locations

It is suitable for the application to exterior/interior surface of the following locations:-

Walls and columns,
Ceilings and beams,
Fence walls, Roof parapets, Bends, etc.

Application

Roller, Spray, Brush

Glossiness

Matt, Semi-glossy, Glossy

Color

Standard color chart from Bonnflon tailor made color

Package available

15kg/can

Thinning ratio

0 ~ 5%

Drying time

At least two (2) eight (8) hours, depending on the weather condition at the time of application.

Theoretical spreading ratio

Approximately 90-100m²/ coat/ can

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Properties		
Storage stability Visual inspection	Passed	No lumps were found upon mixing.
Low-temperature stability @-5°C JIS K5400 5.1	Passed	There was no change in quality.
Workability JIS K5400 6.1	Passed	There was no obstacle to apply materials twice by brush.
Drying time @20°C JIS K5400 6.5	Passed	Less than 2 hours.
Appearance JIS K5400 7.1	Passed	There was no change in the appearance of paint film.
Hiding ability JIS K5400 7.2	Passed	0.99
Specular gloss (60°C) JIS K5400 7.6	Passed	86
Water resistance JIS K5400 8.19	Passed	After immersion in water for 96 hours, the gloss retention was 94% and there was no change in the paint film.
Alkali resistance JIS K5400 8.21	Passed	After immersion in alkali for 7 days, the gloss retention was 85% and there was no change in the paint film.
Washability JIS K5400 8.11	Passed	1000 times
Heat resistance JIS K5600-6-3	Passed	The gloss retention was 84% and there was no change in the paint film.
Condition in container JIS K5400 4.1	Passed	It was become uniform without lumps when mixing by stirring.
Application properties (Recoatibility) JIS K5400 4.1	Passed	There was no impediment for brushing work when making twice coating.
Humidity and cool-heat cycling resistance JIS K5400 9.4	Passed	The gloss retention was 87% and there was no change in the paint film.
Accelerated weathering resistance for 250 hours	Gloss retention - >99%	ASTM G53-88 4-hour UVA at 60°C / 4 hrs COND at 50°C for 250 hours

Application Procedure

- Shake and stir thoroughly to get a complete dispersion of pigment.
- Use standard practice, either by rolling, brush or spraying, to ensure conformance to the specification requirement.
- Drying time may take at least two (2) or eight (8)hours at 10°C-20°C
- Workers, applying in confined areas, are required to wear protection masks and exhaust ventilation should be properly supplied to the confined area.

Precautions in use

Handling and storage

- Do not use near flames
- All workplaces to always have specific ventilating equipment in operation.
- Particular precautions to be taken for good ventilation during application and while drying, and precautions taken to avoid any inhaling of fumes.
- During handling, precautions to be taken to avoid any skin contact and as necessary, gas mask against organic gas or fresh air supplying masks to be worn and also use head towels, wear protective eyeglasses, long sleeved protective gowns, neck protecting towels, protective gloves, etc.
- When coat is spilled, wipe with waste cloths to be kept stored in water filled containers.
- Until final disposal, all waste cloths that have been exposed to coat, hardeners or thinners, and leftover coat, spray dust, etc. for disposal shall be kept doused in water filled containers.
- After handling or application, hands to be thoroughly washed and extensive gargling is advised.
- The handles on the upper part of the tin containers are solely for carrying the tins. Please do not use ropes and hooks on the handles for hanging the tins.
- During storage, containers are to be tightly sealed and stored out of any direct sunlight or any exposure to rain, in a cool, well ventilated area.
- Please store away from any foreign instruction by third parties and out of the reach of children.

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Project A	Year
SSE 515 – Construction of Staff Quarters for Correctional Services Department in Tin Wan	2018-2019
滬江維多利亞學校 Victoria Shanghai Academy, 19 Shum Wan Road, Wong Chuk Hang	2018-2019
浸信會呂明才中學附翼 Construction of An Annex to Baptist Lui Ming Choi Secondary School	2018-2019
Osais Ka Tak, NKIL6541 Kai Tai Area 1H Residential	2017-2018
淺水灣36號A1號屋 No. 36 A1 Repluse Bay	2017-2018
譚瑋士大宅 Jessville, No.128 Pok Fu Lam Road	2017-2018
Contract No. 16/8002 Lamma Power Station 港燈電加站, 南Y島	2017-2018
淺水灣71號B號屋 No. 71B Repluse Bay, Hong Kong	2017-2018
何文田1號 One Homantin, No.1 Sheung Foo Street, Ho Man Tin	2017-2018
大角咀樂群街 No.16-18 Lok Kwan Street, Tai Kok Tsui	2016-2017
港怡醫院 Gleneagles Hong Kong Hospital, Nam Fung Path, Wong Chuk Hang	2016-2017
澳門金管局白宮外牆翻新 Autoridade Monetaria de Macau	2016-2017
淺水灣36號A1號屋 No. 36 A1 Repluse Bay, Hong Kong	2016-2017
澳門路灣鄉村馬路912 (L-39)	2016-2017
齊康大廈 Harmony Mansion, No.380-394 Hennessy Road, Wan Chai	2015-2016
調景嶺智專學院 Renovation of Tin Keng Len VTC	2015-2016
德瑞國際學校 German Swiss International School – 1B Hall at Middle Building, Guildford Road, The Peak	2015-2016
香港專業教育學院(青衣)分校 – 學生宿舍 IVE, Tsing Yi	2015-2016
澳門路灣鄉村馬路1054-1056 (L-12)	2014-2015
拔萃女書院 Dioceson Girls School, 1 Jordan Road, Kowloon	2014-2015
保德街30-38號 No. 30-38 Po Tuck Street, Western District	2014-2015
啟歷學校 Kellet School – The British International School in Hong Kong, Kowloon Bay	2012-2013
蓮福商業大廈 No. 3 Jardine’s Crescent, Lin Fook House, Causeway Bay	2012-2013
聖公會聖雅閣小學 St. Jame’s Settlement, 110 Kennedy Road, Wan Chai	2012-2013

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Project	Year
致華工業大廈, Che Wah Industrial Building, 1-7 Kin Hong Street, Kwai Chung	2012-2013
青沙管制區R8 Tsing Sha Control Area	2012-2013
林士德體育館二期, P2184274 – Osman Ramju Sadick Memorial Sports Centre Phase 2	2011-2012
聖羅刹學校, Redevelopment of St. Rose of Lima's School	2011-2012
循道學校, Primary School at Wylie Road	2010-2011
長沙灣中華基督教會協和小學 C.C.C. Heep Wah Primary School, Cheung Sha Wan	2010-2011
昂船洲高架橋泵房, Stonecutter Island Pumping Station	2010-2011
德瑞國際學校, German Swiss International – 1B Hall at Middle Building, Guildford Road, The Peak	2010-2011
理工大學酒店教學樓, Redevelopment of Pak Sui Yuen (Poly U)	2009-2010
沙田小築, Stain Lookout, Ma On Path, Kau To Shan	2009-2010
3-5 Star Street, Wan Chai	2009-2010
灣仔港燈馬師道電力站, Marsh Road 275KV Substation Building at Wan Chai	2009-2010
Carmel School Kellett School New Campus	2009-2010
調景嶺知專學院, HKDI and IVE, LWL, Campus, Tseung Kwan O Town, Lot No. 107, N.T.	2009-2010
St. Paul Co-education College, Primary School, Wong Chuk Hung	2008-2009
A & A Works for TPTL 161 (Ph. 1)	2008-2009
廣州從化德福湖畔花園	2008-2009
9號幹線荔枝角段橋底泵房	2008-2009
連卡佛大廈, Renovation of External Wall for Lane Crawford House at Queen's Road, Central, Hong Kong	2008-2009
盧押道齊康大廈 Luard Road, Wanchai, H.K.	2007-2008
Elerly Resources Centre at Prosperous Garden	2007-2008
Joy Garden, 13 Shouson Hill Road West	2007-2008
No.151 Lockhart Road, Wanchai, H.K.	2007-2008