



ala fam asia

Manufacturer of Powder Coatings
Lisenced by

HYUNDAI
CHEMTECH



CERTIFICATE

Technical License Agreement

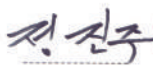
Ala Fam Asia Co., Ltd.
(Pooshesh Dar)

HYUNDAI CHEMTECH CO., LTD. hereby certifies that
technical license agreement with the following ranges :

Formulation
Quality Control & Quality Analyze method
Production know-how
Raw material & Sales information of Powder coating

Valid Until Date : October 25, 2033
Certificate Issue Date : October 25, 2023

Hyundai Chemtech Co., Ltd.
Authorized by :


Jin Ju, Jung, President



HYUNDAI

CHEMTECH

POWDER COATINGS

Ala Fam Asia Co., has been producing Hyundai Chemtech powder coatings based on the worldwide technology with continuous R&D and strict quality control.

Hyundai Chemtech is solvent free coatings of 100% solid content and an environment-friendly powder coatings that can overcome the pollution problems caused by VOCs and waste water.

Hyundai Chemtech also provides the excellent durability and economical efficiency through one coat application when compared with liquid coating systems. Hyundai Chemtech can be used for the wide range of applications such as home appliance, steel furniture industrial appliance, durable architectural materials, reinforced bars, electric insulators and pipes for water, gas, oil etc

User Guide

- Hyundai chemtech products from Ala Fam Asia do not use raw material that includes environment regulated substance (mercury, lead, cadmium hexavalent chrome, PBB, PBDE) in both domestic and overseas
- Before applying, make sure to verify data sheet, as well as product description. Also, please contact corporation for further questions.
- Excepting durable metallic, make sure to use a method of transparent coating for colors that include metallic components such as, silver, copper, gold, etc., because they are highly sensitive about humidity, as well as chemical resistance.
- Special pattern, metallic, and pearl powder coatings may be changed in terms of color, as well as pattern, in accordance to coating thickness, category of spray guns, powder discharge, cure conditions, pretreatment condition of substrate, and reclaimed powder mixing ratio.
- These standard color examples that are registered in the catalog may be slightly different from the actual colors in the production process. Therefore, please make sure to pre-check the colors before using.
- Hyundai Chemtech also provides standard colors (such as MUNSSELL, RAL FS. NC, PANTONE COLOR) that are being used in both domestic and overseas but are not listed in the catalog

HYUNDAI CHEMTECH CODE SYSTEM

HS82-WH241

① ② ③ ④ ⑤ ⑥

①	Resin type	H	► Hybrid
②	Appearance	S	► Smooth
③	Curing temperature	8	► 180°C
④	Gloss	2	► 20~29 Gloss
⑤	Color	WH	► White color
⑥	Serial number	241	

1. Resin Type

Product Typical Name	Abbreciation	Resin Type	Character
EP 1000	E	Epoxy	Chemical resistance, Insulation
HB 2000	H	Hybrid(Epoxy-Polyester)	General use, Indoor field
PF 3500	F	Polyester β -H.A.A	TGIC Free Outdoor field
PU 4000	U	Polyurethane	High pencil hardness, Outdoor field
AR 5000	A	Acrylic polyester / Epoxy	Weather reistance, Clear
UV 6000	V	UV(Ultra violet)	UV cure, Low cure, MDF use
SI 7000	S	Silicone polyester / Epoxy	Heat resistance

2. Appearance

Abbreciation	Character
A	Aluminium effect
B	Bronze effect
C	Copper effect
G	Gold effect
H	Colored hammer effect
I	Metallic hammer effect
J	Pearl hammer effect
L	Multi-colored hammer effect
K	Crack effect
M	Multi-colored effect
N	Multi-colored metallic effect
P	Pearl effect
S	Smooth
T	Texture effect
V	Sandtexture effect
X	Sandtexture metallic effect
W	Wrinkle effect
Y	Tinted effect
Z	Clear
#	Others

3. Curing Temperature

Abbreciation	Metal Temperature
1	Radiation Cure
2	120°C
3	130°C
4	140°C
5	150°C
6	160°C
7	170°C
8	180°C
9	190°C
0	200°C
A	210°C
B	220°C
C	230°C
D	240°C
E	250°C

4. Gloss(60°)

Abbreciation	Gloss Range
0	0~9
1	10~19
2	20~29
3	30~39
4	40~49
5	50~59
6	60~69
7	70~79
8	80~89
9	90~

5. Color

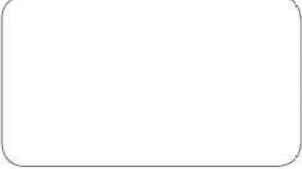
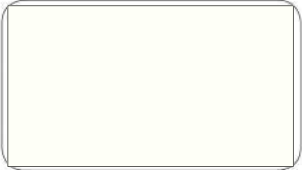
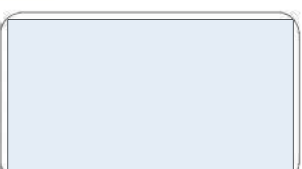
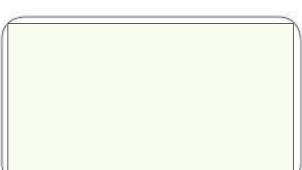
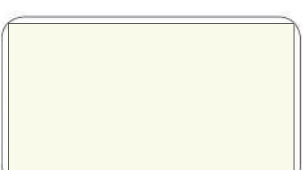
Abbreciation	Color
BE	Beige
BK	Black
BL	Blue
BR	Brown
CL	Clear
GN	Green
GY	Grey
IV	Ivory
MN	Maroon
OE	Orange
PK	Pink
RD	Red
VT	Violet
WH	White
YG	Yellow-green
YW	Yellow
PS	Pearl silver
MS	Metallic silver
MG	Metallic gold
MC	Metallic copper
PR	Pearl red



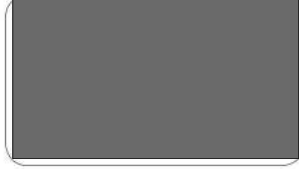
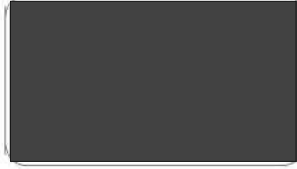
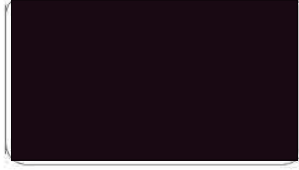
HYUNDAI CHEMTECH PATTERN TYPES

Type	Product name	Resin type					Character	Purpose
		EP	HB	PE	PU	AR		
Smooth	EP 1000 Series	○					Excellent chemical and corrosion resistance	Indoor, Industrial and architectural field
	HB 2000 Series		○				Anticorrosion, Mechanical property	Indoor, Industrial and architectural field
	PF 3500 Series			○			Durable, Toxic free	Outdoor, Industrial and architectural field
	PU 4000 Series				○		Excellent durability and chemical resistance	Outdoor, Industrial and architectural field
	AR 5000 Series					○	Excellent durability and hardness	Outdoor, Industrial and architectural field
Pattern effect	Texture	■	■	■	■	■	Leader feel effect	Indoor/outdoor, Industrial and architectural field
	Sandtexture	■	■	■	■	■	Sand feel effect	Outdoor, Industrial and architectural field
	Metal texture	■	■	■	■		Metallic sand feel effect	Indoor/outdoor, Industrial and architectural field
	Hammer effect	■	■	■	■		Hammer and vein effect	Indoor/outdoor, Industrial and architectural field
	Crack effect	■	■	■	■		Surface cracked feel	Indoor/outdoor, Industrial and architectural field
	Multi effect	■	■	■	■		Multi colored effect	Indoor/outdoor, Industrial and architectural field
	Tinted clear	■	■	■	■		Semi-clear, Excellent clearness	Indoor/outdoor and architectural field
	Sparkle metallic	■	■	■	■		Sparkle metallic effect	Indoor/outdoor, Industrial and architectural field
	Metallic	■	■	■	■		Metallic effect	Indoor/outdoor, Industrial and architectural field
	Chrome silver	■	■				Chrome metallic effect	Indoor and architectural field
	Wrinkle effect		■	■			Wrinkle and alligator skin effect	Indoor/outdoor and architectural field
	Mica effect		■	■	■		Mica appearance effect	Indoor/outdoor and architectural field
	Suade effect		■				Soft feel	Indoor and Industrial field
	Galaxy effect		■				Galaxy effect	Indoor field
Special performance	Anti-fungi & bacterial powder coating		⊙				Antifungi and bacterial activity, 99.99%	Indoor field
	Degassing powder coating		⊙	⊙	⊙		Degassing and out gassing of substrate	Indoor/outdoor and architectural field
	Antistatic powder coating	⊙	⊙	⊙	⊙		Antistatic function	Cleanroom, Semiconductor equipment
	Bus bar powder coating	⊙					Excellent insulation, Flame retardation, Adhesion	Bus bar and duct
	Capacitor powder coating	⊙					Excellent insulation, Flame retardation, Laser marking	Condenser
	Stator powder coating	⊙					Excellent insulation, Flame retardation, Adhesion	Stator slot
	Durable powder coating			⊙		⊙	Durable and super durable Meet AAMA specification	Outdoor and architectural field
	Durable metallic powder coating			⊙			Durable metallic	Outdoor and architectural field
	Easy cleaning powder coating		⊙	⊙	⊙		Easy clean & antigraffiti effect	Screen door, Subway train panel

HYBRID Gloss

			
20-001 HS89-WH279 WHITE(E7) (PT)	20-002 HS89-WH188 WHITE(009)	20-003 HS89-WH280 EC0853 (IP)	20-004 HS89-WH281 EC0263 (IP)
			
20-005 HS89-WH282 WH0011 (KC)	20-006 HS89-WH194	20-007 HS89-WH192 SB	20-008 HS89-WH283 WH0009 (KC)
			
20-009 HS89-WH284 N9.5 (KC)	20-010 HS89-WH285 WH0064 (KC)	20-011 HS89-WH286 PURE WHITE (PT)	20-012 HS89-WH287 EC0983 (IP)
			
20-013 HS89-WH288 JA백색 (PM)	20-014 HS89-WH289 N/WHITE(WH022D) (KC)	20-015 HS89-WH193 AS RAL 9002	20-016 HS89-WH290 RAL9010 (KC)
			
20-017 HS89-WH291 EU0183 (IP)	20-018 HS89-WH292 R/WHITE (PT)	20-019 HS89-BE198 PALE BEIGE (KC)	20-020 HS89-IV306 IVORY (KC)
			
20-021 HS89-IV307 N9.0(KIA) (KC)	20-022 HS89-IV308 IV0014 (KC)	20-023 HS89-WH293 PA-8935 (KC)	20-024 HS89-WH294 BLUE WHITE (KC)
			
20-025 HS89-IV309 D34880 (KC)	20-026 HS89-IV214 E-34890	20-027 HS89-IV310 5Y8.5/1 (KC)	20-028 HS89-IV311 2.5Y9/1 (KC)

These color samples are close as possible to actual offered.

			
20-029 HS89-IV220 C-30891	20-030 HS89-IV312 IVORY(SW) (PL)	20-031 HS89-IV313 D32871 (KC)	20-032 HS89-IV314 C30891 (KC)
			
20-033 HS89-IV315 D30871 (KC)	20-034 HS89-IV221 CH RAL 1015	20-035 HS89-BE199 FAMILYALMOND(DY) (KC)	20-036 HS89-WH200 SM
			
20-037 HS89-BE220 D80770 (KC)	20-038 HS89-GY339 N8.0 (KC)	20-039 HS89-GY227 A/N8.0	20-040 HS89-GY340 RAL 7035 (KC)
			
20-041 HS89-GY229 LIGHTGRAY	20-042 HS89-GY341 N7.0 (KC)	20-043 HS89-GY342 C80680 (KC)	20-044 HS89-GY343 N5.5 (PT)
			
20-045 HS89-GY344 ED0103 (IP)	20-046 HS89-GY345 7.5BG 6/1.5 (KC)	20-047 HS89-GY346 N4.0 (KC)	20-048 HS89-GY347 S/SEPIA(DW) (KC)
			
20-049 HS89-BR170 BROWN (KC)	20-050 HS89-BK135 NEW BLACK(UP) (PT)	20-051 HS89-BK136 BLACK(N) (KC)	20-052 HS89-BK106
			
20-053 HS89-YW114 PA3758 (S)	20-054 HS89-YW121 YELLOW(K) (KC)	20-055 HS89-YW122 L.T.YELLOW(KC)	20-056 HS89-OE118 SAKIYA OE (PT)
			
20-057 HS89-OE119 S/ORANGE (KC)	20-058 HS89-OE112 S/ORANGE	20-059 HS89-RD133 RD0001 (KC)	20-060 HS89-RD123 SK



20-061 HS89-BL211 L/BUE(BU) (KC)



20-062 HS89-BL106 D54506



20-063 HS89-BL212 4PB 4/10(HDPM) (KC)



20-064 HS89-BL213 BLUE(K) (KC)



20-065 HS89-BL168 HJ BLUE



20-066 HS89-BL173 E-56356



20-067 HS89-BL214 BLUE(KW) (KC)



20-068 HS89-BL215 EJ027K (IP)



20-069 HS89-BL216 NEW BLUE(NS) (KC)



20-070 HS89-GN198 2.5G 6/3 (KC)



20-071 HS89-GN197 E39684 (KC)



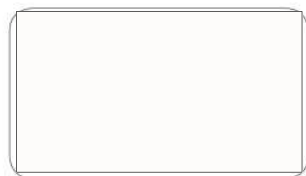
20-072 HS89-GN156 DS

HYBRID

Semi-gloss & Matt



20-073 HS83-WH202 A/N9.5



20-074 HS83-WH295 HANMI WHITE (PT)



20-075 HS83-WH296 N9.5 (KC)



20-076 HS83-WH297 D80940 (KC)



20-077 HS83-WH298 PW WHITE (PT)



20-078 HS81-WH299 D80940 (KC)



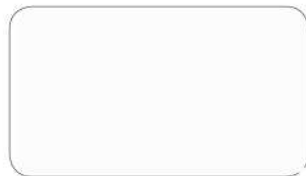
20-079 HS87-WH300 N9.5 G-60 #HSG (PL)



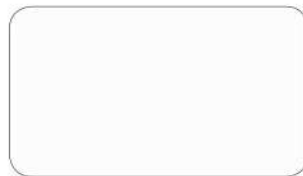
20-080 HS83-WH301 RAL9010 (KC)



20-081 HS84-WH302 S/WHITE(DS) (KC)



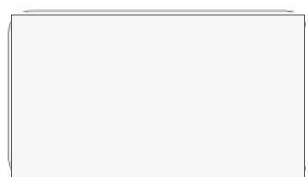
20-082 HS82-WH147 IK WHITE



20-083 HS83-IV316 N9.0 (KC)



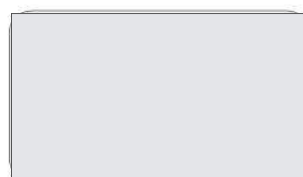
20-084 HS83-GY234 DY N9.0



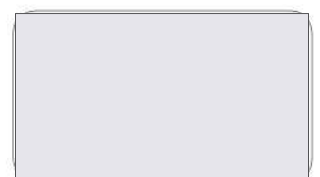
20-085 HS83-IV317 WHITE(EK) (KC)



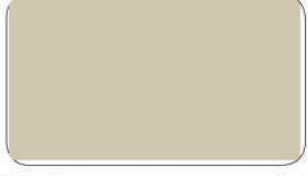
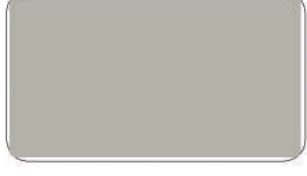
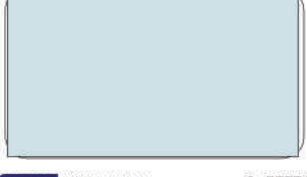
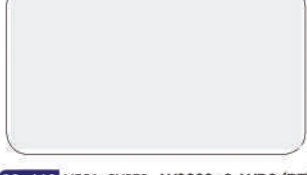
20-086 HS82-IV318 C-7A05-2D (PT)



20-087 HS81-IV302 IV0374 (K)



20-088 HS83-IV320 503 IVORY #SWC (PL)

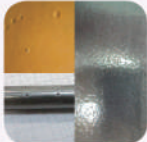
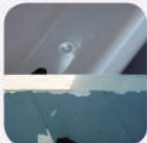
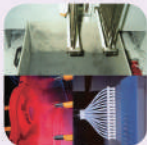
			
20-089 HS83-GY348 N8,5 (PT)	20-090 HS83-IV223 V/DB IVORY(004)	20-091 HS83-IV321 2.5Y9/1 (KC)	20-092 HS83-IV322 C30891 (KC)
			
20-093 HS83-IV323 2.5Y9/2 (KC)	20-094 HS83-IV324 32871 (KC)	20-095 HS83-BE201 PALE BEIGE (KC)	20-096 HS83-BE202 3873-IH #DS (PL)
			
20-097 HS83-BE203 D80830 (KC)	20-098 HS83-BE204 2.5Y8/2 (KC)	20-099 HS83-BE205 DIC 546 1/2 E (PT)	20-100 HS83-BE206 RAL9002 (KC)
			
20-101 HS83-BE207 DB-C304 (PT)	20-102 HS83-BE208 D34770 (KC)	20-103 HS83-BE209 ED127K (IP)	20-104 HS83-BE210 ED125K (IP)
			
20-105 HS83-BE211 STD-5Y7/1 (KC)	20-106 HS83-BE212 RAL 7032 (KC)	20-107 HS83-BE213 5Y7/1 (KC)	20-108 HS85-BR171 L/BROWN #HK (PL)
			
20-109 HS87-BR172 BROWN(OD) (PL)	20-110 HS81-BR173 IEM120K (PT)	20-111 HS82-GY349 7.5BG6/1,5 (KC)	20-112 HS84-GY240 C-55771
			
20-113 HS81-GY350 W3000-2, WD2 (PT)	20-114 HS82-GY351 RAL7035(KC)	20-115 HS81-GY352 GREY(OD) (PL)	20-116 HS84-GY241 N8.0
			
20-117 HS83-GY353 N8,0 (KC)	20-118 HS84-GY354 N7,5 (KC)	20-119 HS82-GY242 N6,5	20-120 HS83-GY355 N7,0 (KC)

HYUNDAI CHEMTECH FUNCTIONAL TYPES

Type	Product name		Resin type					Character	Purpose
			EP	HB	PE	PU	AR		
Special performance	Fast curable powder coating			⊙				Fast cure schedule	Indoor, Industrial and architectural field
	Flame retardation powder coating			⊙	⊙			Flame retardation effect, Meet UL94 V-0 specification	Industrial and architectural field
	Film transcription powder coating			⊙	⊙	⊙		Dye sublimation effect	Architectural, Aluminum chassis
	Corrosion resistance primer powder		⊙					Zinc rich primer	Indoor, Industrial and architectural field
	Hot dip galvanized plating			⊙	⊙			Excellent adhesion	Architectural field, Guard rail
	Heat sink powder coating			⊙	⊙			Temperature down by heat emission	Industrial field, LED cover, Brake pad
	High gloss powder coating			⊙	⊙			High gloss and levelling	Architectural and industrial field
	High reflection powder coating				⊙			Reflection rate 94%	Architectural, light reflector Architectural field
	High pencil hardness powder coating			⊙	⊙	⊙		Pencil hardness 3-5H & scratch resistance	Architectural and industrial field
	Low curable powder coating		⊙	⊙	⊙			EP : 120°C Curable HB : 140°C Curable PE : 150°C Curable	Thick substrate
	Low powder-repulsion powder coating		⊙	⊙	⊙	⊙		Excellent spray workability into corner part	Radiator and fence screener
	MDF powder coating			⊙	⊙			Medium density fiberboard coating	Wood
	Nonstick powder coating				⊙			Nonstick effect	Outdoor, Architectural field, Lamp post
	Superchemical resistance powder coating		⊙					Super chemical resistance and durability	Semiconductor equipment, Cooling tower, Plating hanger
	Tribo charging powder coating		⊙	⊙	⊙			Tribo charging	Radiator, Wheel, Brake pad
	Stressed wire strand powder coating		⊙					Strong tensile strength, flexibility and durability	Guard rail, Bridge wire
	Light storing powder coating			⊙	⊙			Long lasting light emission	Fire fighting & indicator equipment
	Rebar powder coating		⊙					Excellent flexibility and corrosion resistance	Reinforced bar
	Pipe powder coating	Single layer	⊙					Excellent corrosion resistance, adhesion and mechanical property	Pipe coating
		Dual layer	⊙					Dual top & primer coating	Pipe coating
		3-Layer	⊙					Excellent adhesion to adhesive, corrosion resistance	Pipe coating
		Water pipe	⊙					Water pipe inner coating	Iron casting inner coating
		Fitting, valve	⊙					Excellent impact and adhesion	Pipe fitting and valve

HYUNDAI CHEMTECH TROUBLE SHOOTING GUIDE

Trouble shooting guide line of powder coating

Trouble	Possible cause	Possible solution
 Off color	Improper oven exhaust	Check exhaust-vent fans.
	Bake time too long	Adjust line speed.
	Oven temperature too high	Lower oven temperature.
	Variation of film thickness	Work with standard coating thickness.
	Hardened with different thicknesses of the substrate	Work by substrate thickness.
	Different color after assembling parts	Work with the same application company as possible.
	Heat source by LNG or LPG of direct fired oven	Check irregular gas combustion and ask powder for anti direct gas oven.
	Powder formula	Check with powder manufacturer.
 Crater	Poor pretreatment	Check the pretreatment of substrate surface.
	Oil in the compressed air	Check the oil compressed system and use a dehumidifier exclusively.
	Contamination from outside	Check the silicone contamination and clean the gun.
	Contamination with incompatible powder	Evaluate with a virgin powder after confirming the cleaning conditions and recycling system of the booth.
 Too much film flow-Sagging	Film thickness too thick	Control with standard film thickness.
	Complex shape of the part	Adjust gun voltage and powder feeding.
	Powder characteristic	Check with powder manufacturer.
 Poor impact resistance/ poor flexibility/ poor adhesion	Under-cured	Increase oven temperature or increase dwell time in the oven.
	Poor cleaning or pretreatment	Check pretreatment equipment and chemicals.
	Film thickness too high	Reduce film thickness by adjusting the application equipment.
	Powder resin type or formula	Check with the powder manufacturer.
	Conveyor speed too fast	Reduce conveyor speed.
	Heating speed too slow	Check oven temperature and adjust heat power.
 Ununiformity of the powder spraying	Hoses kinked, flattened or too long	Check powder-feed hoses.
	Hoses, pump venturies or gun clogged with powder	Clean hoses, pump venturies and gun inside.
	Insufficient air pressure or volume	Check air supply.
	Reclaim used exclusively	Mix with the virgin powder.
	Poor fluidization	Check the powder fluidizing and adjust air.
	Powder blocking	Check the storage and lump conditions of the powder with a sieve.
	Spraygun cause	Check the gun inside and consult equipment supplier.

HYUNDAI CHEMTECH COVERAGE

Trouble	Possible cause	Possible solution
 Poor penetration into inside corners and recesses	Voltage too high	Turn voltage setting down.
	Powder delivery velocity too high	Turn down air setting or move gun position away from part.
	Complex shape of the part	Replace gun system with tribomatic and powder.
	Powder particles too fine	Turn voltage and powder delivery air setting down.
	Poor ground	Provide ground for all equipment.
	Spray pattern too wide	Change wrong deflector plate.
	Too much reclaim added to the virgin powder	Increase virgin powder or contact powder producer.

Theoretical coverage(m²/kg)

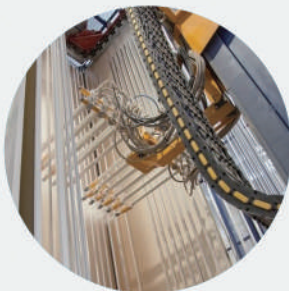
Specific gravity	Film thickness(μm)								Remark
	20	40	50	60	70	80	100	120	
1.0	50.0	25.0	20.0	16.7	14.3	12.5	10.1	8.3	Powder coatings' real specific gravity
1.1	45.5	22.7	18.2	15.2	13.0	10.4	9.1	7.6	
1.2	41.7	20.8	16.7	13.9	11.9	10.1	8.3	6.9	
1.3	38.5	19.2	15.4	12.8	11.0	9.6	7.7	6.4	
1.4	35.7	17.9	14.3	11.9	10.2	8.9	7.1	6.0	
1.5	33.3	16.7	13.3	11.1	9.5	8.3	6.7	5.6	1. Pure and off white 1.55~1.70 2. Ivory/Grey 1.60~1.65 3. Light color 1.50~1.60 4. Black/Primary color 1.30~1.45 5. Clear 1.20~1.25
1.6	31.3	15.6	12.5	10.4	8.9	7.8	6.3	5.2	
1.7	29.4	14.7	11.8	9.8	8.4	7.4	5.9	4.9	
1.8	27.8	13.9	11.1	9.3	7.9	6.9	5.6	4.6	
1.9	26.3	13.2	10.5	8.8	7.5	6.6	5.3	4.4	
2.0	25.0	12.5	10.0	8.3	7.1	6.3	5.0	4.2	* Efficiency : 100% (Supposition)

Coverage and cost calculator

$$\text{Coverage(g/m}^2\text{)} = \frac{\text{Film thickness(}\mu\text{m)} \times \text{Specific gravity}}{\text{Efficiency}}$$

$$\text{Cost(₩/m}^2\text{)} = \frac{\text{Coverage(g/m}^2\text{)} \times \text{Unit price(₩/kg)}}{1000}$$

Coverage



Condition

- Substrate : Aluminum bar · Piece : 100,000
- Size : 7m wide x 0.2m long x 0.1m high x 1mm thickness
- Coated side : Front x Rear x Right x Left
- Film Thickness & Efficiency(Supposition) : 80μm & 95%
- Product : Hyundai Chemtech HS82-WH241 (Specific gravity = 1.50)

Hyundai Chemtech coverage = $(80\mu\text{m} \times 1.50) / 0.95 = 126.3 \text{ g/m}^2 = 0.1263 \text{ kg/m}^2$
 Hyundai Chemtech theoretical coverage = $(1 / 0.1263 \text{ kg/m}^2) = 7.91 \text{ m}^2/\text{kg}$ - ①

Hyundai Chemtech amount required is

- For 1 aluminum bar of four sides

Front = $7\text{m} \times 0.2\text{m} = 1.4\text{m}^2$ - ①	Rear = $7\text{m} \times 0.2\text{m} = 1.4\text{m}^2$ - ②
Right = $7\text{m} \times 0.1\text{m} = 0.7$ - ③	Left = $7\text{m} \times 0.1\text{m} = 0.7$ - ④
(①+②+③+④) Total : 4.2m^2	
- For 100,000 aluminum bar of four sides : $4.2\text{m}^2 \times 100,000 = 420,000\text{m}^2$

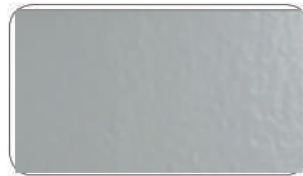
7.91m^2 (①) is coated with Hyundai Chemtech of 1kg
 Therefore, Hyundai Chemtech requirement for 420,000 surface area is :
 $1\text{kg} : 7.91\text{m}^2 = x \text{ kg} : 420,000\text{m}^2$
 $x = (1\text{kg} \times 420,000\text{m}^2) / 7.91\text{m}^2 = 53,097\text{kg}$



20-121 HS83-GY356 C80680 (KC)



20-122 HS84-GY246 C-80680



20-123 HS83-GY309 D80580 #KH



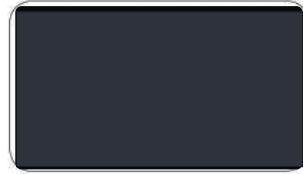
20-124 HS81-GY357 N5.5 (PT)



20-125 HS83-GY358 GY0259 (KC)



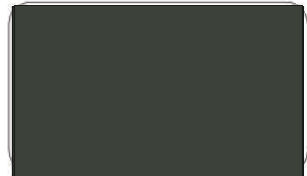
20-126 HS81-GY359 N4.0 (PT)



20-127 HS84-GY254 JN



20-128 HS81-GY360 N3.0 (PT)



20-129 HS81-GY361 GY (PT)



20-130 HS83-GY362 D/GREY(OD) (PL)



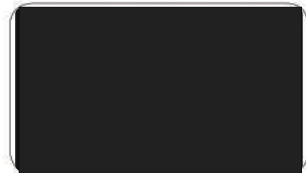
20-131 HS82-GY363 RD/GREY(YJS) (PL)



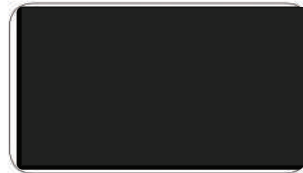
20-132 HS82-BK137 BLACK(SY) (KC)



20-133 HS84-BK101 40G



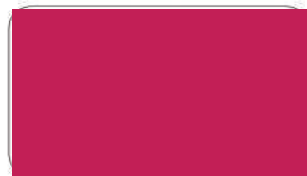
20-134 HS81-BK100 15G



20-135 HS80-BK105 BV



20-136 HS80-GN194 DG (PL)



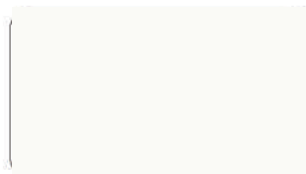
20-137 HS83-RD128 GS



EXTERIOR TGIC Free



20-138 FS89-WH152 P-PURE WHITE(NP) (PT)



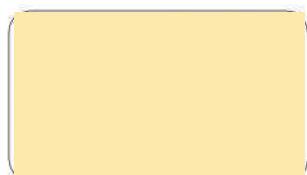
20-139 FS89-WH153 P-SLOT WHITE (PM)



20-140 FS89-WH154 P-PA8935 (PT)



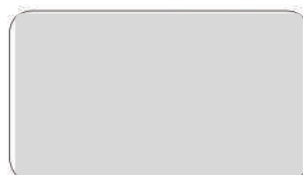
20-141 FS69-WH155 P-WH0327(5PB8/1) (KC)



20-142 FS69-BE124 P-2.5Y9/2 (KC)



20-143 FS89-BE125 P-ND0013 (IP)



20-144 FS89-GY259 P-RAL7035 #CW



20-145 FS89-GY260 P-N7.0 (KC)



20-146 FS89-GY261 P-D-80680 (PT)



20-147 FS69-GY262 P-LPGGREY (KC)



20-148 FS89-BL151 P-COBALT/BLUE(K) (PT)



20-149 FS89-BL152 282C (PM)



20-150 FS69-GN154 P-L/GREEN(WT) (KC)



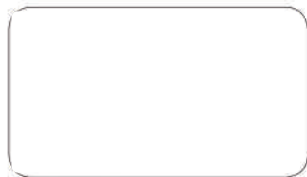
20-151 FS69-GN155 P-9902 (SHP) (PL)



20-152 FS69-BK109



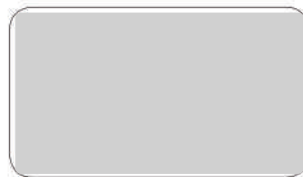
20-153 FS89-RD118 P-AZALEARED(KJHL) (KC)



20-154 FS02-WH156 P-LH-WH053 (PT)



20-155 FS87-GY263 P-RAL7035#HS (PL)



20-156 FS84-GY229 P-RAL 7035 (IS)



20-157 FS87-GY268 P-N7,0 (PL)



20-158 FS87-BE127 P-5Y7/1(HS) (PL)



20-159 FS02-BE128 P-5Y7/1 (KC)



20-160 FS02-BE129 P-SC2920 (KC)



20-161 FS02-GY264 P-7.5BG6/1.5 (KC)



20-162 FS01-GN156 P-EVERGREEN (PT)



20-163 FS03-GY159



20-164 FS84-GY258 P-F3115 #HP



20-165 FS84-GY182 P



20-166 FS02-BR169 (PT)



20-167 FS03-BK122 P-BLACK(AB-1) (KC)

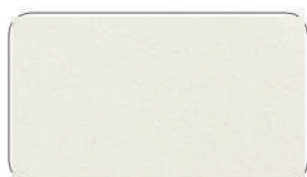


20-168 FS03-BK123 P-BLACK(DW) (PT)



20-169 FS03-BK124 P-N1,5 (KC)

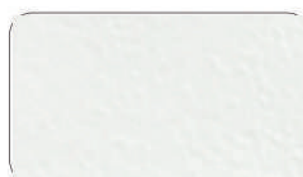
Special effect & Functional



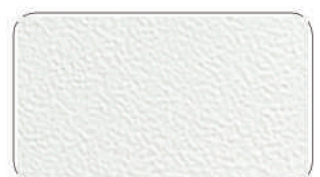
20-170 HT84-WH125 EC4073 (IP)



20-171 HT84-WH126 TX-WH(HD) (PT)



20-172 HT89-WH127 9010MR (PM)



20-173 HT89-WH107



20-174 HT84-IV114 EA404K (IP)



20-175 HT84-IV115 WH062 (KC)



20-176 FT89-GY120 427 (PM)



20-177 HT84-IV117 WH025 (KC)



20-178 HT84-IV104 IV001



20-179 HT84-IV118 IV001 (KC)



20-180 HT84-GY172 WH020 (KC)



20-181 HT84-GY173 N8,0 (KC)



20-182 HT84-GY174 RAL7035 (KC)



20-183 HT84-BE113 RAL7032 (KC)



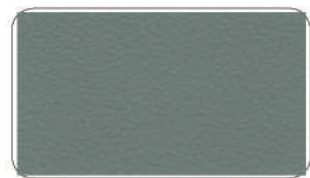
20-184 HT84-BE114 5Y7/1(2003) (KC)



20-185 HT89-GY175 8C (PM)



20-186 HT84-GY176 N4,0(HDMT) (KC)



20-187 HT84-GY177 7.5BG6/1.5(K) (KC)



20-188 FT89-BL119 DIC252 (PM)



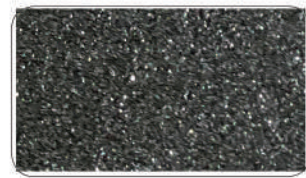
20-189 HT89-BL100 SH BLUE



20-190 FT84-BL120 73130B (PM)



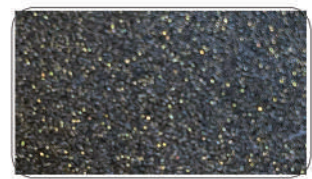
20-191 HT84-BK118 BK016 (KC)



20-192 FAT01-BK DY



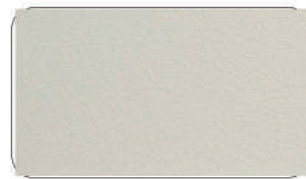
20-193 HV84-WH106 HB WHITE



20-194 FBT01-BK EA311K (PT)



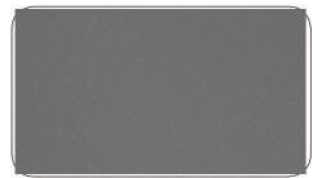
20-195 HV84-WH113 ORIGINAL WHITE (PM)



20-196 HV84-WH114 WHITE(TW-1) (KC)



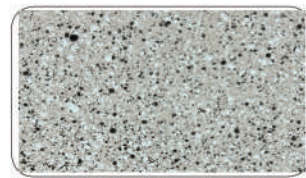
20-197 HV84-GY128 0482(X) (PT)



20-198 HV84-GY129 (PM)



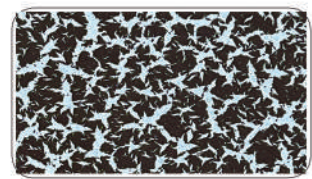
20-199 FV84-BL106 BL010 (KC)



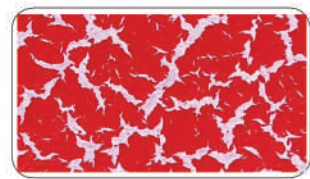
20-200 FM02-LP BK012



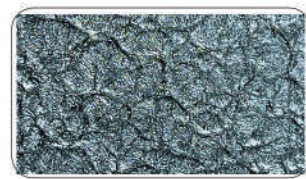
20-201 HV84-BK105 BLACK



20-202 HKB9-BK BLACK(90) (KC)



20-203 HKB9-RD (302)



20-204 HW01-BK HF-BE066 (PM)



20-205 HH89-IV114 KD IVORY



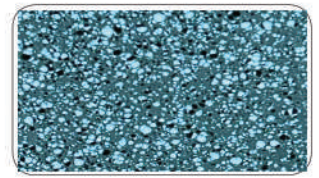
20-206 HH89-BE124



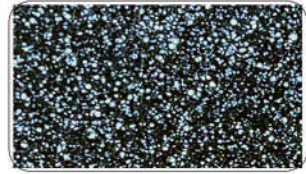
20-207 FH89-IV118 YJ IVORY



20-208 HW01-RD MY004K (PT)



20-209 FM02-PGY BE024 (PM)



20-210 FM02-GY BE024 (KC)



20-211 HH89-BE146 RAL7032(HD) (KC)



20-212 HH89-BE147 5Y7/1 (KC)



20-213 HH89-GY144 RAL7035 (KC)



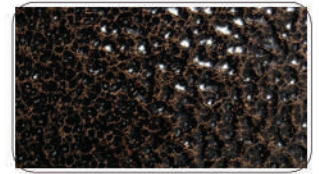
20-214 HH89-GY145 EY019K (KC)



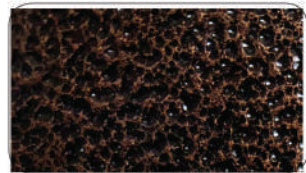
20-215 FH89-GY148 GY001 (KC)



20-216 HI09-MS SILVER (KC)



20-217 FH89-MS150 L/BLACK COPPER (KC)



20-218 HI09-MC



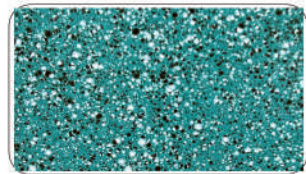
20-219 HI09-MP YJ SILVER



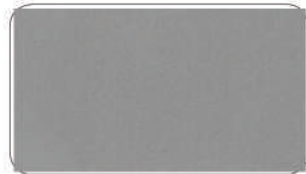
20-220 FA84-MS124 P-METALLIC F3373



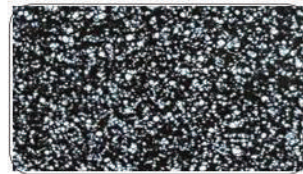
20-221 HA83-MS162 GY0325 (KC)



20-222 FM02-BL 9332G(MK SILVER)



20-223 HA89-MA131 H1044



20-224 FM02-BK



20-225 HA84-MS133 RG



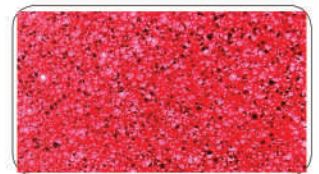
20-226 HA84-MS129 HI SUPER SILVER



20-227 HA89-MS128 PJ



20-228 HA84-MS130



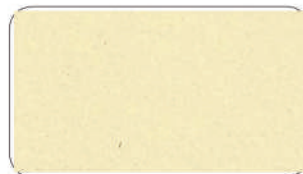
20-229 FM02-RD



20-230 HA89-MG161 GD0005 (KC)



20-231 HS82-IV325 E34890 (KC)



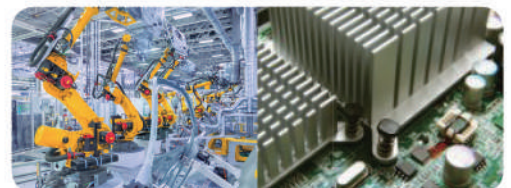
20-232 HS82-IV326 2.5Y9/2 (KC)



20-233 HS81-BK107



20-234 ES89-GY253 ZINC PRIMER(LC)





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