		Common	Common Undercoats							w.proof	Notes		
	Substrate	name and treatment	Weak-solvent primer EPO	Aquasabinon	AdPower EPO *	Adcool sealer	Adpermiate	Adwall	Softwall	Dannetsu Softwall	Adsolid	Multiprimer EP	
М	Steel frame	2 to 3 types of scraping	•	•	•	1	-	-	-	-	-	-	
l e	Steel sheet	2 to 3 types of scraping	•	•	•	1	-	1	-	-	1	-	
+	Tin	2 to 3 types of scraping	•	•	•	-	-	-	-	-	-	-	
a	Electro galvanized steel sheet	2 types of scraping	•	-	•	-	-	-	-	-	-	-	
ı	Stainless steel plate	2 types of scraping	•	-	•	-	-	-	-	-	-	•	
	Aluminum plate	2 types of scraping	•	-	•	-	-	-	-	-	-	•	
N	Calcium silicate board	Keical board, ceiling board	-	-	-	-	•	-	For Wall	or Walls / fine		•	more than 0.8 density
0	Precast concrete members	PC board	-	-	-	•	•	•	elastic filler		-	•	
n	Concrete block		-	-	-	•	•	•	(Applicable	_	-	•	
-	ALC panel		-	-	-	•	•	•	substrate)		-	-	
m	Plaster / slate board	Ceiling board	-	-	-	•	•	•	• Variou	S	-	•	
е	Concrete	RC, SRC	-	-	-	•	•	•	exsisting		-	•	
t	Cement mortar	RC, SRC	-	-	-	•	•	•	coatin	g films	-	•	
а	Ceramic siding board		-	-	-	•	•	•	• Concre	ete	-	•	
1	Slate, color vest, colonial	Flexible board	-	-	-	•	•	•	• Cemer	nt mortar	-	•	
	Asbestos slate	Asbestos board	-	-	-	•	-	-			•	•	
w	Asphalt waterproof	2 to 3 types of scraping	-	-	-	-	-	-	-	-	-	•	(note 1)
p r	PVC · sheet waterproof	2 to 3 types of scraping	-	-	-	-	-	-	-	-	-	•	(note 1)
0	Urethane waterproof	2 to 3 types of scraping	-	-	-	-	-	-	-	-	-	•	(note 1)
f	FRP waterproof	2 to 3 types of scraping	-	-	-	-	-	-	-	-	-	•	(note 1+2)

^{*}JIS specification

- * is feasible, but please contact us if the old coated substrate is bad for adhesion.
- * note 1: Each waterproofing material is needed to scrape in 2 to 3 grade, and remove old coating film as much as possible. Please contact us for new construction substrate.
- * note 2: Roughening is necessary for FRP waterproof substrate.

Precautions for application [Repair substrate]

- 1. Remove rust, oil, adherence, weakened old coating film, float, peeling with disksander, wirewheel, scraper, wirebrush etc., throughly.
- 2. Repair crack / weakened substrate with sealing adjustment etc.
- 3. Remove all powdery adherence with high pressure washing, clean throughly, and dry substrate completely.
- 4. Accomplish appropreate adjustment of substrate based on deterioration level with old film and substrate survey before application.
- 5. Always apply proper standard coating amount to avoid anti-rust and adhesion function decline.
- · Not applicable when the existing coating film is fluorine resin / silicone resin.
- · Not applicable for doweled molten galvanized steel.
- · Please contact us when aiming to apply for newly constructed building.
- * Please refer to the Ministry of Land, Infrastructure, Transport and Tourism repair work guidebook. [Other notes]
- · Acid wash liquid to be used in surface preparation may change the color of the coating film due to its lytic action. Take sufficient precaution when cleaning.
- · When strong alkaline property is foreseen for substrate, efflorescence may be caused to affect the finish of the coating films. Please use solvent-based primer.
- · Actual color may differ slightly from color sample due to method of surface adjustment.

- · The amount indicated on the manual is standard application and including valiability due to condition of substrate, weather, application, and structure of buildings.

 It is essential to stir more than 3 minutes in low speed rotation with stirrer just before use at each

- application due to its specific ceramics to be dispered throughly.

 The process of the substrate adjustment is not inclided in the scope of responsibility for coating.

 Not applicable when the existing coating film is either 2-liquid solvent type fluorine resin coating or
- silicone resin coating.

 Avoid application under the weather conditions of; temperature below 5 degrees c., humidity above 85%, and where condensation, rainfall, srong wind, or snowfall is expected.
- Protect by masking/curing for rain and snow when expected after application. And/or stop application afternoon when expected below freezing temperature during night.
 Stop application and dry throughly before sunset when expected high humidity, night dew,

- morning mist, condensation, squall etc., to avoid drops, unevenness, and peeling cause.

 Avoid application when expected continuously/always condensation in the area and the season.

 Always make sure the standard amount and the interval time according to the specification, not to
- cause peeling, crack, and/or color descrepancy, and pay attention not to apply too thick in once. Make sure not to freeze at site and delivery, it cannot be used once freezed.
- · Avoid direct sunlight, store under 40 degrees c. condition in cold and dark place, use outside or well
- ventilated. (Always make sure the storage condition when application.)
- * Please refer to the SDS (safety data sheet) for the general and detailed handling and notification.)

For metals / Undercoat

Top coats / Main

- The amount indicated on the manual is standard application and including valiability due to condition of substrate, weather, application, and structure of buildings.

 Always make sure the standard amount and the interval time according to the specification, not to cause peeling, crack, and/or color descrepancy.

 Avoid application under the weather conditions of; temperature below 5 degrees c., humidity above 85%, not to cause gloss failure of topcoats.
- Avoid application when expected condensation, rainfall, srong wind, or snowfall after within 6 hours.
- Avoid direct sunlight, store under 40 degrees c. condition in cold and dark place, use outside or wel
- Stricly meet requirements and be especially careful about fire, and strictly observe the Fire Service Act and the Industrial Safety and Health Act.

- and the industrial Safety and relatif Act.

 Close tightly the lid and use up as soon as possible after opened.

 Not use any tools which sparks occcur, and take static electricity preventive measures.

 If spilled from containers, wipe with a cloth and store in a container with water.

 Dispose bins and contents as industrial waste according to rules of each local government.

 Do not dispose waste water (washed tools / bins) to ground/drain due to bad affect to environment,
- always contact to local facility of waste water treatment plant and/or industrial waste supplier * Always contact us when apply to newly constructed / materia
- * Please refer to the SDS (safety data sheet) for the general and detailed handling and notification.) This handling manual is issued on Jan 2023 with the latest information as of the month

necessary to stir more than 3 minutes in low speed rotation with stirrer just before use at each application.

Adgreencoat is always

For waterproofing substrate / Undercoat

- The amount indicated on the manual is standard application and including valiability due to condition of substrate, weather, application, and structure of buildings.
- Or substate, weather, application, and solutions or buildings.

 Dry throughly of substrate (less than 10% moisture, less than pH10). If solvent remains on the existing coating film, there is risk of blistering, so need sufficient drying before coating.

 Please cut off where the upper and lower tiles are glued with paint at drainage section.
- Please do a final check, such as damage to the tiles, nail lifts, and broken seals before application
- Please remove extraneous substances (Moth, algae, degraded layer etc.) by high pressure washing (about 10MPa pressure) as substrate adjustment.
- It may cause peeling of coating and/or less gloss etc. if adjustment of substrate if insufficient. It may cause gloss deterioration, swelling, cracking and peeling if the substrate surface is wet due to
- rain or dew, therefore, do not apply until it is sufficiently dry.

 Please immediately wash coating tools with a lacquer thinner etc. · Sealer coating may cause swelling and shrinkage of the existing coating. Please check in advance with
- trial coating. If swelling or shrinkage occurs, completely remove the existing coating.

 Close tightly the lid and use up as soon as possible after opened.

 Avoid application when expected condensation, rainfall, srong wind, or snowfall after within 6 hours.

 Strictly no fire. Please avoid heat, humidity, and keep in cool and dark palce.

- Not use any tools which sparks occur, and take static electricity preventive measures.
 If spilled from containers, wipe with a cloth and store in a container with water.
 Do not dispose waste water (washed tools / bins) to ground/drain due to bad affect to environment,
- always contact to local facility of waste water treatment plant and/or industrial waste supplier * Please refer to the SDS (safety data sheet) for the general and detailed handling and notification.)

For non-metals / Undercoat

- · The amount indicated on the manual is standard application and including valiability due to condition
- of substrate, weather, application, and structure of buildings.

 Throughly dry to less than 8% moisture and less than pH 10 when apply to alkalic substrate such as concrete / mortar etc...
- Stir throughly before application, and apply outside or well ventilated area.

 Avoid application under the weather conditions of; temperature below 5 degrees c., humidity above 85%.
- Avoid application when expected condensation, rainfall, srong wind, or snowfall after within 6 hours.

 Strictly do not mix any other coatings, pens etc. regardless of any types.

 Storage must be in cool and dark place, bins must be closed tightly, and store in well ventilated.
- Avoid using together with general water-based coating tools and Adpermiate which will be solidated due to its cationic specification
- * Please refer to the SDS (safety data sheet) for the general and detailed handling and notification.)



User's Manual

Top coats

* wb=water based, 1WSV=1 liquid weak solvent, 2WSV=2 liquid weak solvent, 2SV=2 liquid solvent

	Product Name	Packing	Application area (per 1 coating)	Туре	classificati on
,	Adcool Aqua 30% gloss	14 kg / can 4 kg / can	90 m2 / can 25 m2 / can	Modified acrylic silicone resin	WB
	Adcool Aqua 50% gloss	14 kg / can 4 kg / can	90 m2 / can 25 m2 / can	Modified acrylic silicone resin	WB

Under coats

	Produ	ict Name	Packing	Application area (per 1 coating)	Туре	classificati on
F 0 r	Weal	k-solvent primer EPO	16 kg / can	53~123 m2 / can	Modified epoxy resin	1WSV
M	A	Aquasabinon	16 kg / can	105∼140 m2 / can	One-component reaction curing type Epoxy modified acrylic resin	WB
e t a l	AdPower EPO (For strong rust) *JIS specification		16 kg / set	95~114 m2 / can	2-liquid quick-drying weak solvent type Modified epoxy resin	2WSV
	Roof Wall	Adcoolsealer	14 kg / can	82~140 m2 / can	Heat shielding epoxy resin	1WSV
F o m r	Roof Wall	Adpermiate *remain stock only	14 kg / can	82~140 m2 / can	Nano-cation - high penetration type Epoxy modified emulsion	WB
e ' t N a	Wall	Adwall *remain stock only	16 kg / can	100∼133 m2 / can	Special Urethane Modification Acrylic emulsion	WB
l o n	Wall	Softwall	16 kg / can	10~53 m2 / can *depends on way of application	Flexible repair coating material E	WB
	Wall	Dannetsu Softwall	12 kg / can	12~24 m2 / can	Heat-insulating flexible repair material E	WB
For water-	Multiprimer EP		16 kg / set	100∼123 m2 / can	Two-component reaction curable epoxy resin	2SV
proofing	Multiprimer EP Dedicated thinner		16 kg / can 4 kg / can	-	Epoxy thinner	SV
For Asbesto slate	Adsolid *Limited for the certified applicator		18 kg / can	approx. 100 m2 / can	Condensation / Solidification Asbestos processing agent	WB

Intermediate coats

Product Name		Packing Application area (per 1 coating)		Туре	classificati on
For metal / Coating waterproofing material	BariStop	18 kg / can	36∼60 m2 / can	Acrylic rubber waterproof film	WB

- * It will be the end of product with the remaining stock only with Adpermiate and Adwall.
- * Limited item for the certified applicator: Only for the applicator who took the certified construction engineer workshop (paid). Please contact us for the details.
- * Please contact us when you need "JIS specification".

http://www.nck-sales.co.jp

Standard construction specification

For Metal Substrate

[Applicable substrate: steel, alminume, stainless plate etc.]

Process	Product Name	Standard application amount (kg / m2 / times)	No. of coatings	Coating interval time (23℃)	Diluent agent	Diluent ratio	Application tools				
Substrate adjustment	•Remove rust, float, paint film de a wire wheel, and hand tool suc	Remove and clean dusts with using high pressure washing, thoroughly dry substrate. Remove rust, float, paint film deterioration such as peeling, powder etc., by using power tool such as disc sander, a wire wheel, and hand tool such as sand paper, scraper wire brush, etc. After 2-3 types of scraping, wipe oil to remove by solvent.									
Under coat	Weak-solvent Primer EPO 0.13~0.3 1~2 more than 16h / less than 7 days Thinner 0~10% Brush Wool rolle Airless spr										
Top coat	Adcool Aqua 30% / 50% gloss	0.15	2	more than 3h / less than 7 days	Water		Brush Wool roller Airless spray				

[♦] All water-based specification: "Aquasabinon" (1 liquid / water-based) 0.11-0.15kg/m2/times, coating interval more than 16h, less than 7d, dilution 0-5% water

For Non-Metal Substrate

[Applicable substrate: concrete, mortar, slate, ALC etc.]

Process	Product Name	Standard application amount (kg / m2 / times)	No. of coatings	Coating interval time (23°C)	Diluent agent	Diluent ratio	Application tools		
Substrate adjustment	Clean with high pressure washing, and throughly dry substrate. Remove and clean deteriorated old coating film, dusts, oils etc., used in combination with hand tools such as wire brush, cloths, sand paper etc. Repair the cracks, scratch, unevenness, and defect, etc. on substrate before application if necessary.								
Under coat	Adcoolsealer (Weak solvent)	0.1~0.17	1	more than 16h / less than 7 days	No dilution	-	Brush Wool roller Airless spray		
Top coat	Adcool Aqua 30% / 50% gloss	0.15	2	more than 3h / less than 7 days	Water	0~5%	Brush Wool roller Airless spray		

- ♦ All water-based specification: "Adpermiate" (1 liquid / water-based) 0.1-0.17kg/m2/times, coating interval more than 3h, less than 7d, no dilution
- ♦ All water-based specification for wall: "Adwall" (1 liquid / water-based) 0.12-0.16kg/m2/times, coating interval more than 3h, less than 7d, no dilution
- ♦ JIS specification: "Adbest sealer" (1 liquid / weak solvent-based) 0.2-0.8kg/m2/times, coating interval more than 4h, less than 7d, dilution 0-10% thinner

For Waterproofing Substrate

[Applicable substrate: urethane, asphalt waterproofing etc.]

							, , , , , , ,		
Process	Product Name	Standard application amount (kg / m2 / times)	No. of coatings	Coating interval time (23°C)	Diluent agent	Diluent ratio	Application tools		
Substrate adjustment	Remove / clean dusts with using a high pressure water washing, thoroughly dried substrate. Depending on types of substrate, apply appropreate treat / adjustment such as removing weakened and/or floating old coating film etc. *In case of polymer cement mortar (Leve-mol) installation on a silver coating, apply 0.3 kg / m2 / 2 times to completely seal the silver surface.								
Under coat	Multiprimer EP (Solvent)	1	more than 16h / less than 5 days	Dedicated thinner		Brush Wool roller Airless spray			
Top coat	Adcool Aqua 30% / 50% gloss	0.15	2	more than 3h / less than 7 days	Water	0~5%	Brush Wool roller Airless spray		

- ♦ All water-based specification: "Adpermiate" (1 liquid / water-based) 0.1-0.17kg/m2/times, coating interval more than 3h, less than 7d, no dilution
- * Waterproofing layer application: please invariably contact us due to substrate diversity.

Health and safety precautions

1. Handling precaution

- When handling, avoid contact with skin, and wear appropreate protective clothes.
 Wash hands and gargle throughly after handling.
 Install ventilation equipment in application place and well ventilate during/after application.
 Do not use the products for other purpose than the intended.

3. Storage precaution

- 2. Emergency and first aid
- (1) Eye contact: Immediateely rinse affected eyes with prenty of clean water, and seek medical attention. (2) Skin contact: Wash affected area with clean water and soap, and seek medical attention if necessary. (3) Ingestion: Take a plenty of clean water and induce vomiting, and seek medical attention. (4) Inhalation: If feeling sick, take rest for a while, and/or seek medical attention.

4. Disposal precaution

1) Store the products inside place in the temperature range of to degrees c., avoiding direct sunlight.

(1) To dispose of used containers and unused coating materials etc., contact industrial waste disposal contractors.

(2) In case of leakage, over with dry sands etc. before collecting, or wipe off residual spill by waste close etc.

(3) Keep reaching out from children.

* Please refer to the each Safety Data Sheet (SDS) for the details.

Standard construction specification

For Wall / Slight Elastic Undercoat

[Applicable substrate: concrete, mortar, slate, ALC etc.]

Process	Product Name	Standard application amount (kg / m2 / times)	No. of coatings	Coating interval time (23°C)	Diluent agent	Diluent ratio	Application tools		
Substrate adjustment	•Remove dust, uncured cement powder, dust, oil and other adhesive materials with a wire brush, waste, leather, sandpaper, etc., and make sure for dry, clean surface.								
	Dannetsu Softwall	0.5~1.0	1~3	more than 5-16h / less than 7 days	Water	0∼1.2 L	Porous roller		
		0.5~1.0	1~3	more than 5-16h / less than 7 days	Water	0.6∼1.2 L	Spraying (scraped-finish gun) Diameter 4~6mm Spray pressure 0.5~0.6MPa		
Under coat	or	0.3~0.6	1~2	more than 5 h / less than 7 days	Water	0.9∼1.2 L	Wool roller (middle length)		
	Softwall	0.8~1.5	1	more than 5 h / less than 7 days	Water	0.3~0.9 L	Porous roller		
		0.7~1.2	1~2	more than 5 h / less than 7 days	Water	0.6∼0.9 L	Spraying (scraped-finish gun) Diameter 4~6mm Spray pressure 0.5~0.6MPa Airless Pump		
Top coat	Adcool Aqua 30% / 50% gloss	0.15	2	more than 3 hours / less than 7 days	Water	0~5%	Brush Wool roller Airless spray		

For Asbestos Slate Substrate

[Applicable substrate: asbestos slate only] *handling limited for certified applicator

Process	Product Name	Standard application amount (kg / m2 / times)	No. of coatings	Coating interval time (23°C)	Diluent agent	Diluent ratio	Application tools			
Substrate]	Remove organic waste (garbage, dust, moss, mold, bird dropping, etc.) with brush or broom, etc., and apply Adsolid. Note: Do not use high pressure washing as it may cause asbestos scattering.								
adjustment	Adsolid (Substrate adjusting agent) *Limited for the certified applicator	0.1~0.17	1	more than 6 hours / less than 7 days	No dilution	-	Airless spray, Sprayer etc.			
Under coat	Adcoolsealer (Weak solvent)	0.1~0.17	1	more than 16h / less than 7 days	No dilution	1	Brush Wool roller Airless spray			
Top coat	Adcool Aqua 30% / 50% gloss	0.15	2	more than 3h / less than 7 days	Water	0~5%	Brush Wool roller Airless spray			

It is not feasible to apply on synovial surface and/or if old coating film is remaining on substrate

For Intermediate Coat

Process	Product Name		Standard application amount (kg / m2 / times)	No. of coatings	Coating interval time (23℃)	Diluent agent	Diluent ratio	Application tools		
Substrate adjustment		Depending on types of substrates, follow the standard construction specifications for each material, and apply appropriate								
Under coat	substrate treat	substrate treatment / adjustment, and primer coating.								
Intermediate coat	For metal / Coating waterproofing material	Baristop	0.3~0.5	2	more than 5h / less than 7 days	Water	0~5%	Brush Wool roller Airless spray		
Top coat	Adcool Aqua 30% / 50% gloss		0.15	1~2	more than 3h / less than 7 days	Water	0~5%	Brush Wool roller Airless spray		

- It is the standard amount/numbers on the manual. It has some variability according to condition of application.
- When handling solvent, make extra care about fire and comply with the Fire Service Act and the Industrial Safety and Health Act.

[♦] For strong rust / JIS specification: "Adpower EPO" (2 liquid / solvent-based) 0.14-0.17kg/m2/times, coating interval more than 4h, less than 7d, dilution 0-10% thinner