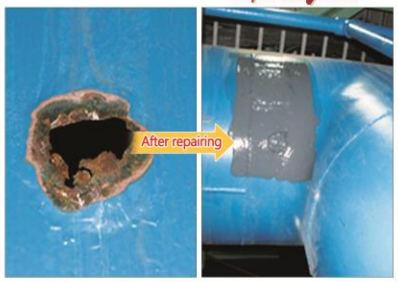
• Atometal AM-A
(Repair materials)

• CERACOAT AM-C
(Protective coating materials)



Corrosion Control System
BNB
Factory & Lab : #474-2, Gasan-Ri, Gasan-Myun, Pocheon-Si, Kyunggi-Do, Korea
Tel. : +82 31 543 2223, Fax. : +82 31 543 2240
http://www.bnb.kr

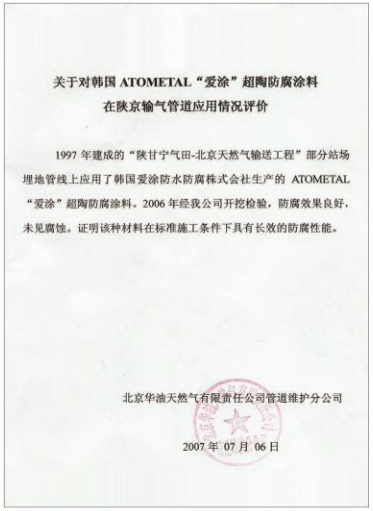
published on 25th February 2014

Corrosion Control
Atometal®

The Innovation Corrosion Control System for Protection and Maintenance of Industrial Resources

Corrosion Control System
BNB

▼ CNPC Certificate

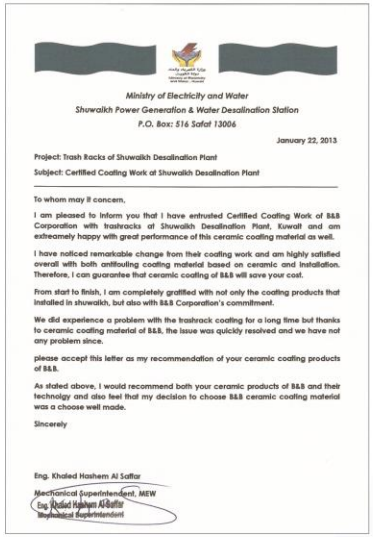


关于对韩国 ATOMETAL "爱涂" 超陶防腐涂料
在陕京输气管道应用情况评价

1997 年建成的 "陕甘宁气田-北京天然气输送工程" 部分站场埋地管线上应用了韩国爱涂防水防腐株式会社生产的 ATOMETAL "爱涂" 超陶防腐涂料。2006 年经我公司开挖检验，防腐效果良好，未见腐蚀。证明该种材料在标准施工条件下具有长效的防腐性能。

北京华油天然气有限责任公司管道维护分公司

2007 年 07 月 06 日



Ministry of Electricity and Water
Shuwaikh Power Generation & Water Desalination Station
P.O. Box: 516 Safat 13006

January 22, 2013

Project: Trash Racks of Shuwaikh Desalination Plant
Subject: Certified Coating Work at Shuwaikh Desalination Plant

To whom may it concern,

I am pleased to inform you that I have entrusted Certified Coating Work of B&B Corporation with trashracks at Shuwaikh Desalination Plant, Kuwait and am extreamely happy with great performance of this ceramic coating material as well.

I have noticed remarkable change from their coating work and am highly satisfied overall with both antifouling coating material based on ceramic and installation. Therefore, I can guarantee that ceramic coating of B&B will save your cost.

From start to finish, I am completely gratified with not only the coating products that installed in shuwaikh, but also with B&B Corporation's commitment.

We did experience a problem with the trashrack coating for a long time but thanks to ceramic coating material of B&B, the issue was quickly resolved and we have not any problem since.

please accept this letter as my recommendation of your ceramic coating products of B&B.

As stated above, I would recommend both your ceramic products of B&B and their technolgy and also feel that my decision to choose B&B ceramic coating material was a choose well made.

Sincerely

Eng. Khaled Hashem Al Saffar
Mechanical Superintendent, MEW

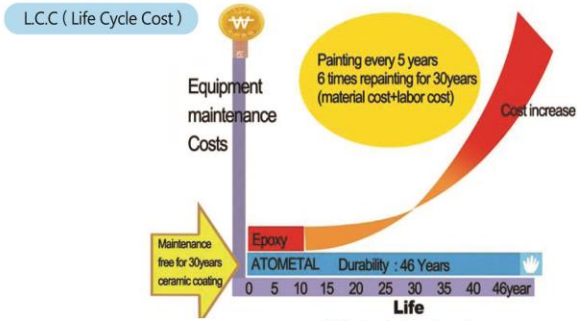
▲ Letter of Recommendation, Kuwait

What makes us special?

Basis of Atometal is blended ceramic polymer with specific metal powders and pigments. Blending ceramic polymer with special additives, it produces excellent characteristic such as;

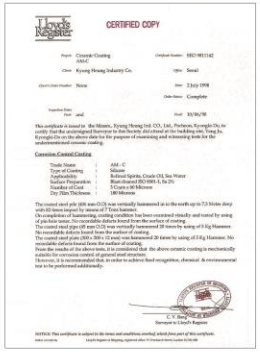
- Strong adhesion
- Abrasion resistance
- Flexibility and impact resistance
- Muliti-layered barrier against corrosion & fouling factors
- Curing in the water

With these unique characteristics of Atometal system, we suggest credible and environment friendly solutions for Corrosion Control and alternative approaches for Easy Maintenance of your facilities.



(Life Cycle Coatings)

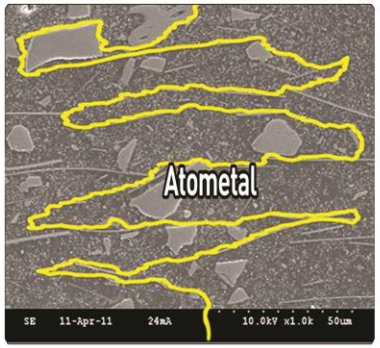
▼ Lloyd hammering test



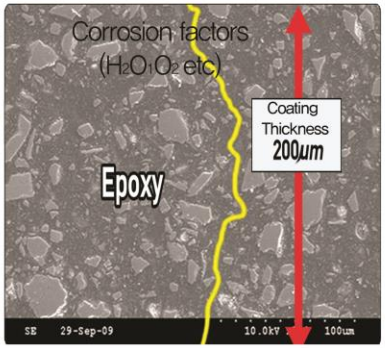
Lloyd's Register

CERTIFIED COPY

Corrosion Control Coating



(46 years)



(7~10 years)

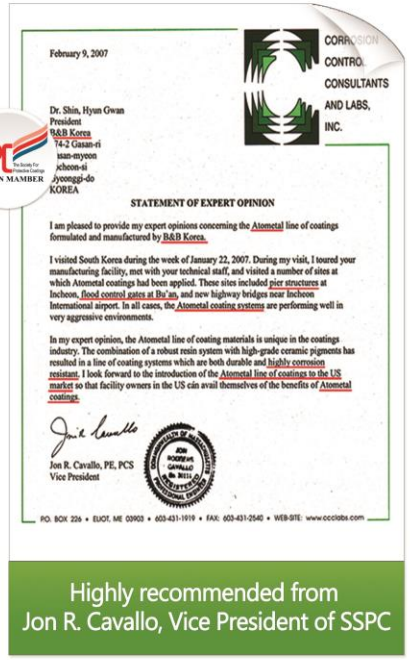
(Electro micro-scopic pictures)

AM-C series

Applications : AM-C for steel facilities

Utilizing the characteristics of ceramic coating material, we can provide protection against corrosion of following steel facilities with very long durability at any severe environments.

- Bridges
- Sluice gates, dock gates, dams
- Oil and Gas plants and facilities
- Bar screens, heat exchangers, water pipelines in electric power plants and distilling water plants
- Ship's hull, decks and tanks
- Pontoons, ramps, cranes and jetty piles in Harbor facilities
- Other marine structures should be protected from corrosion and fouling



February 9, 2007

CORROSION CONTROL CONSULTANTS AND LABS, INC.

SSPC The Society for Protective Coatings PATRON MAMBER

Dr. Shin, Hyun Gwan
President
B&B Korea
74-2 Gasan-ri
Gasan-myeon
Incheon-si
Gyeonggi-do
KOREA

STATEMENT OF EXPERT OPINION

I am pleased to provide my expert opinions concerning the Atometal line of coatings formulated and manufactured by B&B Korea.

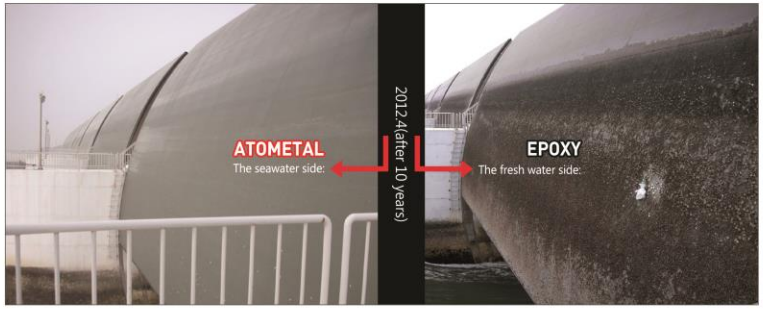
I visited South Korea during the week of January 22, 2007. During my visit, I toured your manufacturing facility, met with your technical staff, and visited a number of sites at which Atometal coatings had been applied. These sites included pier structures at Incheon, flood control gates at Bu'an, and new highway bridges near Incheon International airport. In all cases, the Atometal coating systems are performing well in very aggressive environments.

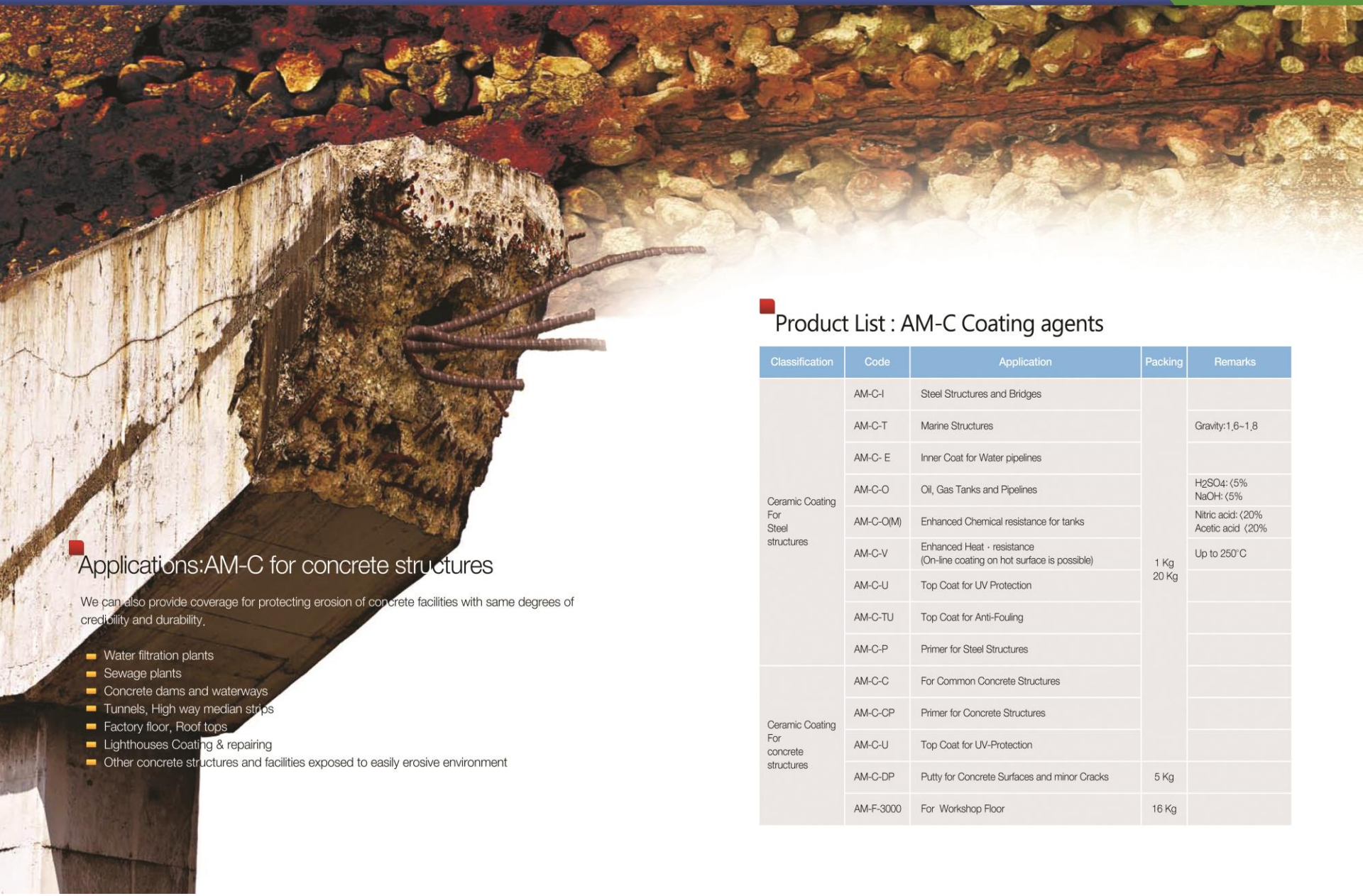
In my expert opinion, the Atometal line of coating materials is unique in the coatings industry. The combination of a robust resin system with high-grade ceramic pigments has resulted in a line of coating systems which are both durable and highly corrosion resistant. I look forward to the introduction of the Atometal line of coatings to the US market so that facility owners in the US can avail themselves of the benefits of Atometal coatings.

Jon R. Cavallo, PE, PCS
Vice President

PO. BOX 226 • ELIOT, ME 03903 • 603-431-1919 • FAX: 603-431-2540 • WEB-SITE: www.ccclabs.com

Highly recommended from
Jon R. Cavallo, Vice President of SSPC





Applications:AM-C for concrete structures

We can also provide coverage for protecting erosion of concrete facilities with same degrees of credibility and durability.

- Water filtration plants
- Sewage plants
- Concrete dams and waterways
- Tunnels, High way median strips
- Factory floor, Roof tops
- Lighthouses Coating & repairing
- Other concrete structures and facilities exposed to easily erosive environment

Product List : AM-C Coating agents

Classification	Code	Application	Packing	Remarks
Ceramic Coating For Steel structures	AM-C-I	Steel Structures and Bridges	1 Kg 20 Kg	
	AM-C-T	Marine Structures		Gravity:1.6~1.8
	AM-C- E	Inner Coat for Water pipelines		
	AM-C-O	Oil, Gas Tanks and Pipelines		H_2SO_4: 〈5% NaOH: 〈5%
	AM-C-O(M)	Enhanced Chemical resistance for tanks		Nitric acid: 〈20% Acetic acid 〈20%
	AM-C-V	Enhanced Heat · resistance (On-line coating on hot surface is possible)		Up to 250°C
	AM-C-U	Top Coat for UV Protection		
	AM-C-TU	Top Coat for Anti-Fouling		
	AM-C-P	Primer for Steel Structures		
Ceramic Coating For concrete structures	AM-C-C	For Common Concrete Structures		
	AM-C-CP	Primer for Concrete Structures		
	AM-C-U	Top Coat for UV-Protection		
	AM-C-DP	Putty for Concrete Surfaces and minor Cracks	5 Kg	
	AM-F-3000	For Workshop Floor	16 Kg	

AM-A series

- Corrosion/erosion/abrasion/chemical resistant machinable rebuilding grade product
- Concrete repair and grouting system
- For repairing,reinforcing damaged or worn-out equipments/facilities of power plant,petrochemical plant,oil refinery,ship, pipelines,tanks,steel or concrete structures
- For reduction of opportunity loss cost
- For reduction of replacement cost of expensive equipments

Repairing Pipelines in Floating Docks of SAMSUNG Shipbuilding co.

Applications : AM-A Repairing Materials

We provide various alternatives to repairing and reinforcing damaged or worn-out steel facilities and concrete structures

- Equipments and facilities of heavy industrial plants such as power plants, steel plants,
- petrochemical plants, etc.
- Oil, Gas and chemical tank and pipeline facilities
- Ship's hull, engine and equipments
- Pumps, valves, flanges, pipes of various facilities
- Putty reinforcement on welded steel surface
- Repair and grout on concrete structures
- Other damaged equipments and facilities that must not be repaired by welding

Product List : AM-A

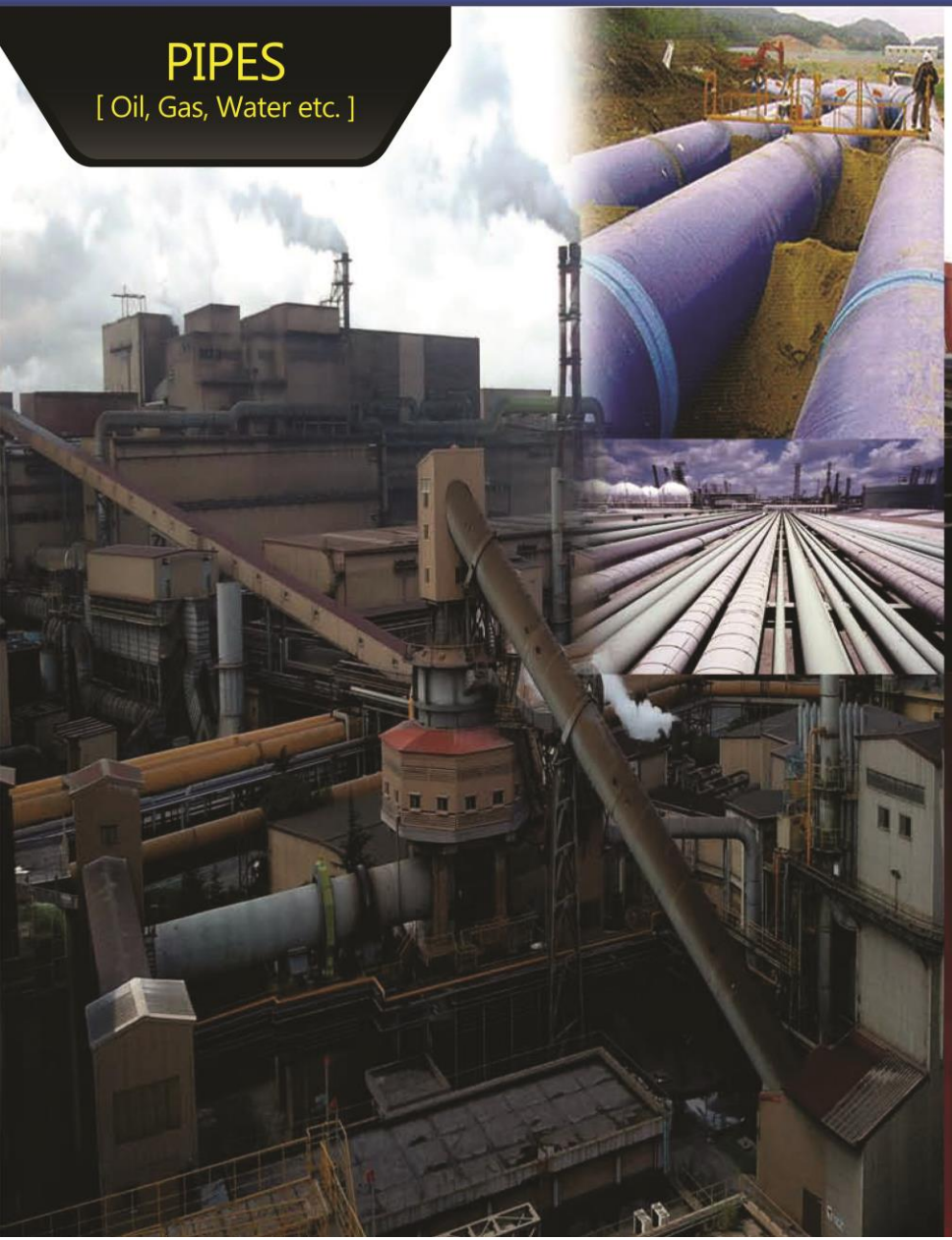
Code	Application	Packing	Remarks
AM-A	General purpose repairing (Basic)	20Kg 1kg 454g	■ Color : Grey ■ Hardness : Rockwell R106
AM-A-Q	Quick Curing and Repairing		■ Workable : 8 min. ■ Cure : 2 hr
AM-A-M	Reinforcing Ship's Hull Weld line		Sagging 30mm
AM-A-1000	Enhanced Anti-Abrasion capability (small particle)		Abrasion 13 mg (1Kg, CS17, 1000times)
AM-A-2000	Enhanced Anti-Abrasion capability (small particle)		Abrasion 22 mg (1Kg, CS17, 1000times)
AM-A-3000	Enhanced Chemical Resistance		■ H_2SO_4 : 〈 50 % ■ HNO_3 : 〈 20 %
AM-A-5700	Non-Ferrous		Adhesiveness 6.5 (Aluminum)
AM-A-7200	Enhanced High Temperature Resistance		Adhesiveness 10 Mpa after 7 day in 200°C

Technical Information : AM-A

Item	Atometal	Similar Products		Test Method
		A (Korean)	B (Other)	
Abrasion (Taber, mg loss)	14.0	75	44	ASTM 4060
Curing time (25°C,hr)	3	12	6	KSM 5000
Adhesive Strength(N/mm²)	8.9	8.5	1.16	ASTM D 4541
Tensile Shear Adhesive strength (N/mm²)	16.3	5	4	KSM 3734
Compressive Strength(N/mm²)	89.1	76.3	64.40	KSM 3015
Heat resistance Test	No defect 250°C,1hr	No defect 230°C,1hr	No defect 150°C,1hr	KSM 5000-3421
Sagging	〉30mm	3 mm	10 mm	KSM 5980

PIPES

[Oil, Gas, Water etc.]



SHIP

[Vessel, Shipbuilding (welding parts)]

MARINE STRUCTURE