

[www.daemi.net](http://www.daemi.net)

# DAEMI



 DAEMI CO.,LTD.

# Introduce

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DAEMI, established in 2000, are confident that we will provide our customers with superior productive productivity and high-quality technology, and will provide the best customer satisfaction as an environmentally friendly company.

We are developing eco-friendly technologies such as water-based adhesives and anti-dust agents. We also produce and sell release agents, polyols, and special polyurethanes.

Our water-based adhesive is a product that minimizes the amount of VOC emission currently being troubled, and is a product that can sufficiently cope with the environmental regulations of RoHs. In addition, by minimizing the amount of VOC emissions, indoor air quality can be improved. And It can minimize the occurrence of atopy and sick house syndrome. Besides, it is one-component type water-soluble adhesive and has excellent adhesion to non-polar materials such as PP plastic.

We will always show the best products to our customers through the best quality control based on ISO9001.

Thank you.



DAEMI CO.,LTD.





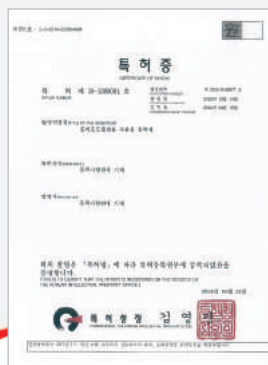
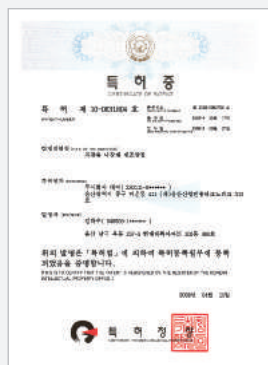
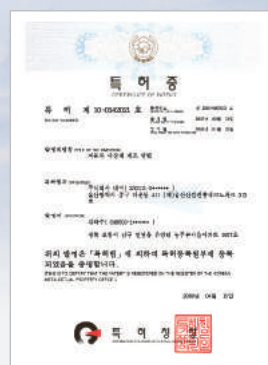
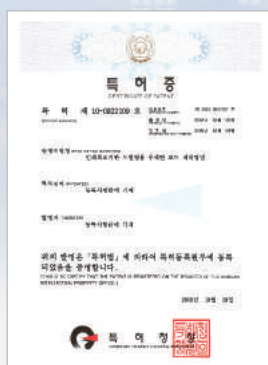
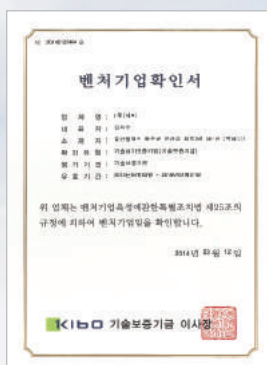
# History & Certificates & Patents

## History

2000. 06	Founded DAEMI Chemical
2001. 08	Became a corporate entity
2005. 03	Changed company name to DAEMI Co.,LTD.
2007. 05	Obtained ISO9001:2000
2008. 04	Registered as a venture enterprise
2013. 10	Completed new factory in Ulsan
2014. 08	Established R & D Center
2015. 01	INNO-BIZ Registration

## Certificates & Patents

- Quality management system based on ISO9001 maintains the highest quality.



# Business

- Water based adhesive (For Non polar materials, PP)
- Dust Protector
- Polyurethane Coating
- Polyol/Isocyanate
- Release agent







# Water based Adhesive for PP Non Polar

## Water-based adhesive / Solvent-based adhesive Comparing pros and cons

Water-based adhesive	Solvent-based adhesive
VOC Free (use water as a solvent)	High VOC Occurrence (Solvent)
Washable with water	Odor Occurrence (Working environment harmful)
Drying process required	Drying process required
Disadvantage of initial adhesion	Excellent initial adhesion
Within 6 months of storage	Long-term storage
Need to keep at room temperature	Formation of film during exposure to air

## Characteristics of Daemi Water-based adhesive

### DM 95A25/A

- Strong adhesion to PP material
- Water-based products do not contain solvents.
- One-component type
- High heat resistance (110 °C, 300hour)
- Excellent compatibility with waterborne paints.
- Possible Water resistance

### DM 95B34

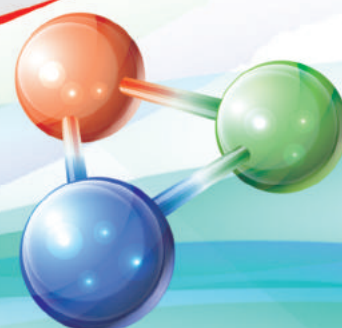
- Strong adhesion to PP material
- Water-based products do not contain solvents.
- One-component type
- PP + PP foam Wrapping process possible

### DM R31C

- Strong adhesion to Pu foam
- Fast initial adhesion
- Possible Water resistance

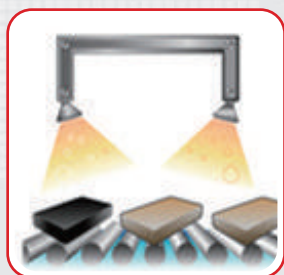
### DM 10523 (cohesionant)

- Good Pressure Sensitive Adhesive to surfaces of various materials
- Good initial adhesion
- Water-based products do not contain solvents.

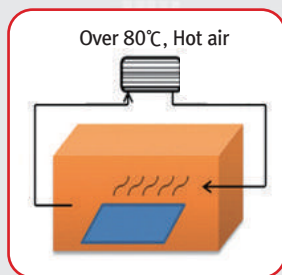


# Water based Adhesive for PP Non Polar

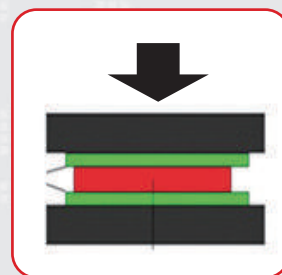
## Process



Spray (Painting)



Dry



Press

## Notice

- Keep container tightly closed after use.
- Avoid direct sunlight.
- Store at room temperature.  $25 \pm 2$  °C, Special caution when storing in winter.

## VOC(Volatile Organic Compounds) yield

Unit :  $\mu\text{g}/\text{m}^3$

	Benzene	Toluene	Ethylbenzene	Xylene	Stylene	Formaldehyde	Acetaldehyde	Acrolein
DM-95A25/A	N.D	30.9	12.2	21	N.D	N.D	27	N.D
DM-95B34	N.D	N.D	N.D	N.D	N.D	85.9	N.D	N.D
DM-R31C	N.D	34.1	N.D	N.D	N.D	N.D	N.D	N.D
DM-10523	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D

• N.D = No detect



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# Water based Adhesive for PP Non Polar

## 95A25/A Series

95C25/A

For Metal, PP and Ceramic

95C25/AE

For Water resistance

95C25/BE

High adhesion

95C25/N

High Wet

95A25/A

For Metal, PP and Ceramic

95A25/AE

For Water resistance

95A25/BE

High adhesion

95A25/N

High Wet

## 95B34 Series

95B34

For PP, High adhesion to Rubber foam, foam backing, Non woven materials

95B06

For PP, High adhesion to fabric, Non- woven materials, fast tack

95B07

For PP, High adhesion to fabric, Non- woven materials, fast tack

## R31C Series

R31C

Water based adhesive

R31CE

For Water resistance

R31CI

Fast tack

R31D

Fast tack

## 10523 Series

10523

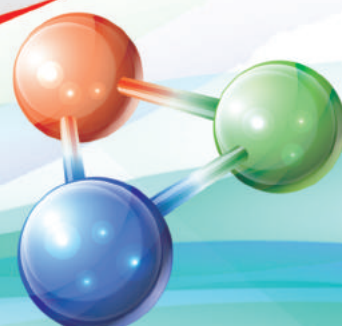
PSA (Pressure Sensitive adhesive)

10523E

For Water resistance

10523D

Curing type



# DM Water based Adhesive

## 95A25/A Series

### DM-95A25 series For PP

- PP+Pu foam
- Aluminum + PP Foam
- PP + Leather
- TPO coating
- Aluminum + fiber
- PC + sus
- PP + PVC
- Wood (MDF) + PVC

### DM-95B34 series For PP

- PP + PP
- PP + Leather
- PP + PP foam
- PP + Non woven fabric

### DM-R31C series

- Leather + Pu foam
- TPU + PU foam
- Nylex + Pu foam
- Woven + Pu Foam
- Leather + Leather
- Pu foam + Pu foam
- Pu foam + Pu fiber

### DM-10523 series

- Leather + Pu foam
- PP + Pu foam
- ABD + Pu foam
- Wood(MDF) + PVC
- ABS + leather





# DM Water based Adhesive

## 95B34 Series

### DM-95A25/A grade is

- Environment-friendly water-based adhesive without solvent (VOC-Free)
- Easy to use as one-component type adhesive
- Applicable to various materials (Easy to adhere Non-polar, PP and so on)
- Applicability to various fields according to the use (Binder, Coating)
- Easy to clean equipment
- Easy to check status of spread visually
- Applicable to various processes (Spray, gravia roll)

### Property

Appearance	White Pink
Solid contents	38 ± 2%
Density	1.02 g/cm <sup>3</sup>
Viscosity	300~400 cps (25℃)
pH	6.5 ~7.5 (25℃)

※ It's able to adjust the viscosity.

### How to use our product

This product is designed for various processes and it is suitable for both Spray process and Roll Coating (Gravia roll) through viscosity control. In order to manifest adhesive properties, the following process is necessary.

- Adhesive spread  
(Recommended spread volume : 40 ~ 80g/m<sup>2</sup>)
- Tack expression by using hot air (over 80 °C)
- Adhesion through compression

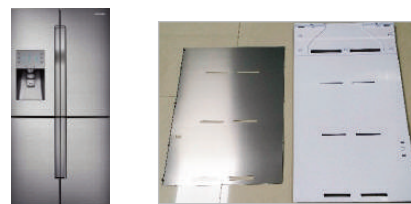
※ According to circumstances, curing times of up to 3days are required

### Example

PP + Rubber



PP + Aluminum



### Substrate

- Pu
- Metal
- Ceramic
- Glass
- PVC
- TPO

### Container

IBC (1,000 kg)	Drum (200 kg)	Tubs (20kg)

# DM Water based Adhesive

## 95B34 Series

### DM-95B34 grade is

- Environment-friendly water-based adhesive without solvent (VOC-Free)
- Easy to use as one-component type adhesive
- Excellent adhesion to PP
- Wrapping adhesion is possible
- Easy to clean equipment
- Easy to check status of spread visually
- Applicable to various processes (Spray, gravia roll)

### Property

Appearance	White
Solid contents	50 ± 2%
Density	1.02 g/cm <sup>3</sup>
Viscosity	150~200 cps (25°C)
pH	6.5 ~7.5 (25°C)

※ It's able to adjust the viscosity.

### How to use our product

This product is designed for various processes and it is suitable for both Spray process and Roll Coating (Gravia roll) through viscosity control. In order to manifest adhesive properties, the following process is necessary.

- Adhesive spread  
(Recommended spread volume : 40 ~ 80g/m<sup>2</sup>)
- Tack expression by using hot air (over 80 °C)
- Adhesion through compression

※ According to circumstances, curing times of up to 3days are required

### Example

PP Foam+PP(TD20)



PP+ Non woven fabric



### Substrate

- PP
- Non woven materials
- Fabric
- Foam

### Container

IBC (1,000 kg)	Drum (200 kg)	Tubs (20kg)



# DM Water based Adhesive

## R31C Series

### DM-R31C grade is

- Environment-friendly water-based adhesive without solvent (VOC-Free)
- Easy to use as one-component type adhesive
- Applicable to various materials (Strong adhesion to Foam material)
- Excellent initial adhesion
- Easy to clean equipment
- Easy to check status of spread visually
- Applicable to various processes (Spray, gravia roll)

### Property

Appearance	White
Solid contents	50 ± 2%
Density	1.02 g/cm <sup>3</sup>
Viscosity	0~50 cps (25°C)
pH	8 ~ 9.4 (25°C)

※ It's able to adjust the viscosity.

### How to use our product

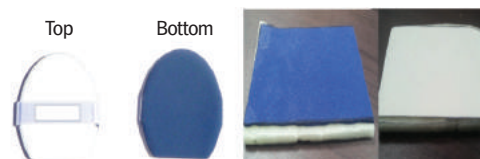
This product is designed for various processes and it is suitable for both Spray process and Roll Coating (Gravia roll) through viscosity control. In order to manifest adhesive properties, the following process is necessary.

- Adhesive spread  
(Recommended spread volume : 40 ~ 80g/m<sup>2</sup>)
- Tack expression by using hot air (over 80 °C)
- Adhesion through compression

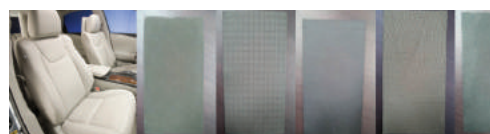
※ According to circumstances, curing times of up to 3days are required

### Example

PU Foam+PU fiber



PU Foam+interior materials



### Substrate

- Pu
- Leather
- Artificial leather
- felt

### Container

IBC (1,000 kg)	Drum (200 kg)	Tubs (20kg)



# DM Water based Adhesive

## 10523 Series

### DM-10523 grade is

- Environment-friendly water-based adhesive without solvent (VOC-Free)
- Applicable to various materials
- Excellent adhesiveness
- Adhesiveness is possible without any additional process
- Curing type is also possible depending on the case
- Applicable to various processes (Optimized for Gravia roll method)

### Property

Appearance	White
Solid contents	59 ± 2%
Density	1.02 g/cm <sup>3</sup>
Viscosity	6000~7000cps(25℃)
pH	8 ~ 9.4 (25℃)

※ It's able to adjust the viscosity.

### How to use our product

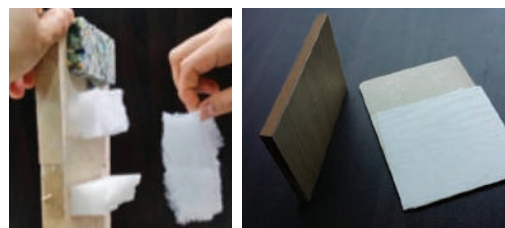
This product is designed for various processes and it is suitable for both Spray process and Roll Coating (Gravia roll) through viscosity control. In order to manifest adhesive properties, the following process is necessary.

- Adhesive spread  
(Recommended spread volume : 40 ~ 80g/m<sup>2</sup>)
- Tack expression by using hot air (over 80 °C)
- Adhesion through compression

※ Drying process is required for water resistance grade

### Example

MDF, PVC, Al, EPS, Concrete



### Substrate

- Pu
- Leather
- Metal
- Felt
- PE

### Container

IBC (1,000 kg)	Drum (200 kg)	Tubs (20kg)

# DM Dust Protector DP01

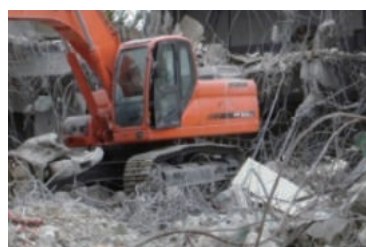
## DM-DP01 grade is

- Eco-friendly product as water-soluble anti-scattering agent
- Reduce dust generation in the workplace
- As a water-soluble, be harmless to humans
- Easy to control user's required properties by Dilution with ionized water or purified water.
- Easy to use it safely
- Low corrosion resistance to equipment

## How to use our product

- Be diluted to ion-exchange water or purified water as much 3~5 wt% with DM-DP01
- Strength can be adjusted by adjusting dilution ratio according to work environment
- Be spread by spray at the workplace




## Example



## Property

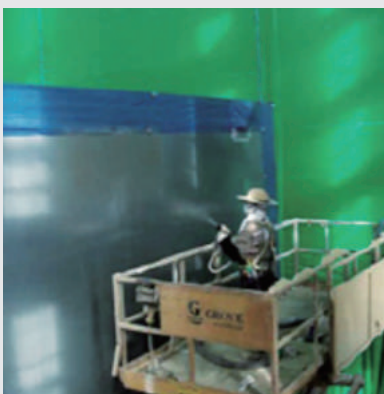
Appearance	Transparent
Solid contents	46 ± 2%
Density	1.02 g/cm <sup>3</sup>
Viscosity	1500~2000 cps (25°C)
pH	5~6 (25°C)

## Container

IBC (1,000 kg)	Drum (200 kg)	Tubs (20kg)
		

# DM Polyurethane coating

- Restrain the spread of fire by using polyurethane coating with Non flammable
- Using construction of buildings and ships
- Using for protecting of mechanical damage on polyurethane foam
- Easy process by using spray
- Water protection coating for oil pipe and water pipe etc.



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## Etc

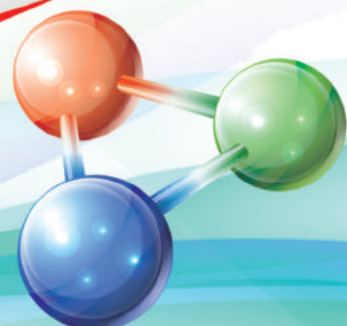
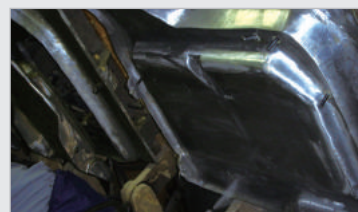
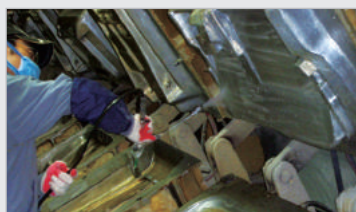
### Polyol

- Production of Polyol for automobile and normal construction
- Production of special polyurethane for cryogenic insulation



### Release agents

- Release agent of mold for polyurethane production
- Release agent for injection mold



# Adhesive applications

## DM-95A25 series

(For PP)

- PP + PU foam
- Aluminium + PP Foam
- PP + leather
- TPO Coating
- Aluminium + fiber
- PC + sus
- PP + PVC
- Wood(MDF) + PVC

## DM-95B34 series

(For PP)

- PP + PP
- PP + leather
- PP + PP foam
- PP + Non Woven fabric

## DM-R31C series

- leather + PU foam
- TPU + PU foam
- Nylex + PU foam
- Woven + PU foam
- leather + leather
- PU foam + PU foam
- PU foam + PU fiber

## DM-10523 series

- leather + PU foam
- PP + PU foam
- ABD + PU foam
- Wood(MDF) + PVC
- ABS + Leather

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