

"FARM BARRIER" is a new-technology paint that is registered with NETIS of the Ministry of Land, Infrastructure, Transport and Tourism.

NETIS registration number **QS-120011-A**

FARM BARRIER is the first hot weather concrete measure registered to NETIS as the paint for drum paint throughout Japan. Utilize FARM BARRIER for the quality stabilization of raw concrete in the hot weather.

NETIS (New Technology Information System)

The New Technology Utilization System of Ministry of Land, Infrastructure, Transport and Tourism is operating a system on the Internet that provides information and evaluates technologies for new technologies registered to NETIS.

Aims for Utilization of New Technology

Resolutions for assigned public projects, cultivation of environment where high-technology companies can grow, and promoting projects for new technology development in the private level.

Incentives for Utilization of New Technologies

When a contractor proposes utilization of the new technology, the proposal accumulates points towards plant record assessment.



Sticker with a NETIS registration number

In order to clearly distinguish FARM BARRIER from general paints and other paints that do not have a concrete temperature suppression effect, stickers with the NETIS registration number are provided.
* NETIS registration is strictly controlled by checking the VIN number on the auto-mobile inspection certificate.

Concrete Mixer Truck Temperature Suppression Paint

FARM BARRIER

Line up



Energy-Saving Heat Insulation Paint
FARM BARRIER Tio
(16kg) set Part A 14kg Part B 2kg



Energy-Saving Heat Insulation Paint
FARM BARRIER
(16kg) set Part A 14kg Part B 2kg



FARM BARRIER
Heat Insulation Primer W
(16kg) set Part A 14kg Part B 1.6kg



Related Products
FARM BARRIER Thinner
(16L)

Miyazaki prefecture business innovation plan approved company
Miyabo Co., Ltd.
http://miyabo.co.jp



Toll-free number **0120-077-876**



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Headquarters

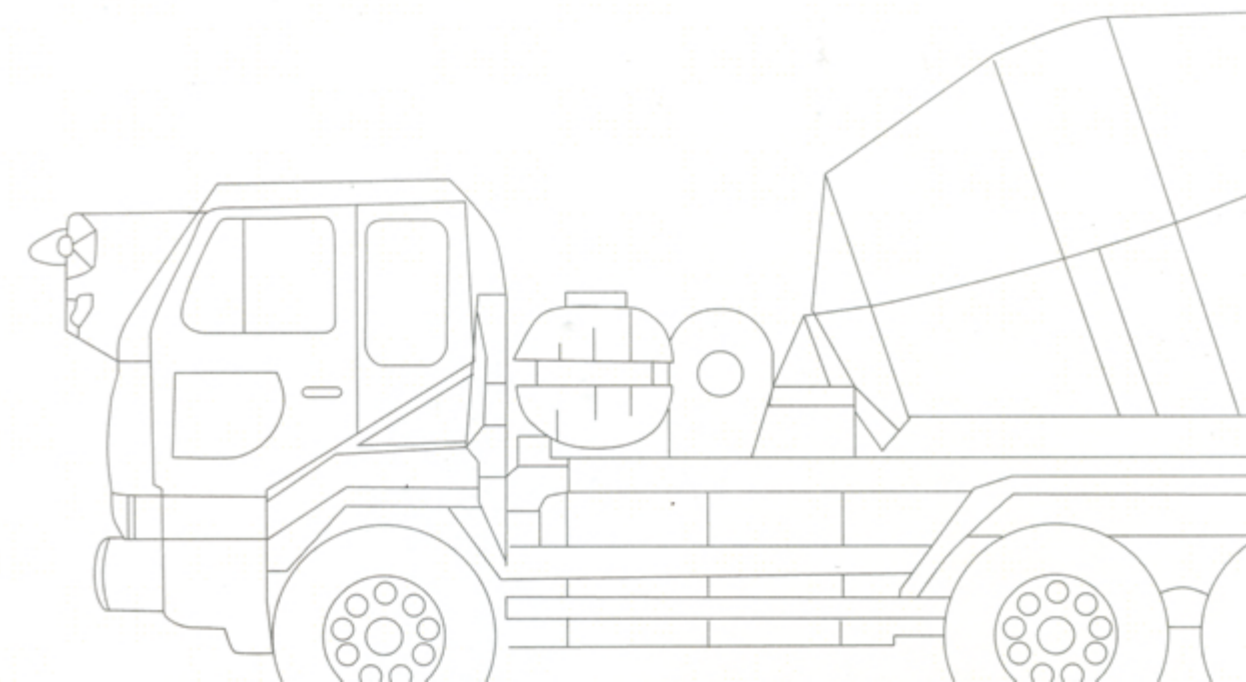
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examples of construction

Quality Stabilization of Raw Concrete

Increase in raw concrete temperature in the summer time can be suppressed by applying the heat insulation paint on the drum of concrete mixer truck.

1 Temperature increase of the raw concrete drum surface and inside can be suppressed just by applying FARM BARRIER

Even the cost is lower than conventional urethane paint for vehicles. The cost effectiveness is high.



2 Contributing to raw concrete temperature measure during the hot weather

Due to the effect of global warming, temperatures during the summer is rising year by year. Adopt FARM BARRIER as one of the effective measures for suppressing raw concrete temperature to the proper level.

3 Easy application

Application of FARM BARRIER is very easy when a commercially-available sprayer is used. Application of FARM BARRIER on one drum takes only one day.

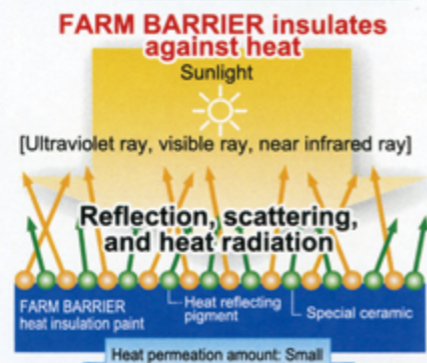
4 Heat Insulation Specification Sticker

Heat insulation specification sticker used in all of Japan has been created. Customers can use this sticker to attract public project owners and major construction companies.



Heat Insulation Mechanism of FARM BARRIER

When a standard coating is used, the temperature increases due to absorption of near infrared ray which has the higher heat effect within the sunlight spectrum. On the contrary, FARM BARRIER with a heat reflective pigment effectively reflects and scatters the near infrared ray which has high heat effects and prevents solar heat from being absorbed. Additionally, FARM BARRIER radiates heat once absorbed to the coated film with the function of the special ceramic. These combined effects achieve a high heat insulation performance.



Raw Concrete Temperature Comparison Test

Temperature comparison test for raw concrete in concrete trucks, one with standard paint and the other with heat insulation paint was conducted.

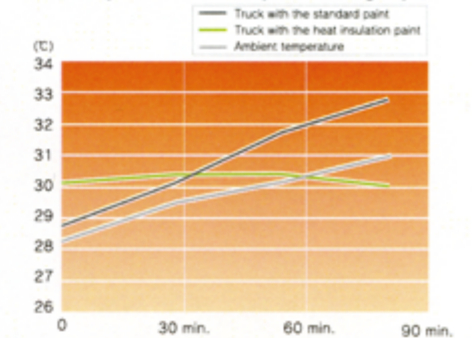
Raw concrete temperature comparison table

	0 min.	After 30 min.	After 60 min.	After 90 min.
Truck with standard paint	28.8	30.2	31.8	32.9
Truck with heat insulation paint	28.2	29.5	30.2	31.1
Ambient temperature	30.0	30.5	30.5	30.0

Result

- It was confirmed that the raw concrete temperature after 90 minutes of the test resulted in a temperature suppression effect of 1.8°C.
- The concrete in the drum with the heat insulation paint applied has a smaller slump drop rate; providing better raw concrete performance.

Raw concrete temperature comparative graph



Specification of Standard Paint

Process	Material	Preparation	Application method	Usable time	Used amount	Application interval
Preparation of the base surface	After washing with water, dry and remove stickers and other unnecessary items. Polish the surface with sand paper and remove greases with thinner.					
Base coating	FARM BARRIER heat insulation primer W/Part A	14.4kg	Spray	8 hours (23°C)	0.12 / m ²	4 hours (23°C)
	FARM BARRIER Thinner	0 ~ 1.6L				
Top coating (1st time)	FARM BARRIER Tio Part A	14kg	Spray	6 hours (23°C)	0.15 / m ²	2 hours (23°C)
	FARM BARRIER Tio Part B	2kg				
Top coating (2nd time)	FARM BARRIER Tio Part A	14kg	Spray	6 hours (23°C)	0.15 / m ²	2 hours (23°C)
	FARM BARRIER Tio Part B	2kg				
Top coating (3rd time)	FARM BARRIER Tio Part A	14kg	Spray	6 hours (23°C)	0.15 / m ²	—
	FARM BARRIER Tio Part B	2kg				
	FARM BARRIER Thinner	0 ~ 2.5L				

Application Procedure of Heat Insulation Paint on the Concrete Mixer Truck

