



**Laboratory Testing Report**

<i>Company</i>	Noroo Paint And Coatings
<i>Contact Name</i>	Sung Woo Jung swjung@noroo.com Yun-jae So syj@noroo.com
<i>Report Date</i>	September 14, 2018
<i>Category</i>	Detailed Performance
<i>Category Type</i>	Initial
<i>IPS#</i>	3025-I-2018-50-16298
<i>MPI Category #</i>	50
<i>Product Label</i>	MPI 50 Ultra Primer
<i>Product Name</i>	Ultra Primer
<i>Product Code</i>	NA
<i>Batch Number</i>	118JUL1111A
<i>Testing Results</i>	<b>PASS</b>
<i>Approval Expiry Date</i>	Approximately 2 years
<i>Failure Notice</i>	
<i>Comments</i>	
<i>MPI Technical Director</i>	<b>Bob Welch</b>
<i>MPI Senior Admin Assistant</i>	<b>Matt Jacobs</b>
<i>MPI Invoice #</i>	<b>D18-0717</b>

**A pass report is not the final approval.**

**Final approval occurs when the product is published in the MPI Approved Products List.  
The MPI Approved Products List is updated by the 5th of each month.**

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September 14, 2018*

**■GENERAL INFORMATION**

This paint is based on Acrylic polymer and White pigmented, latex-based primer-sealer intended for use on new interior plaster, concrete and wall board surfaces that are to be subsequently painted with a latex or alkyd finish coat. This paint is not intended for use on wood.

**■SUITABLE USE**

Various kinds of ceilings and walls (concrete, P.C., mortar, plaster and Painted with a latex or alkyd finish coat) and etc.

**■SPECIFICATION**

A. Type: Acrylic Polymer/Primer Sealer/Interior

B. Drying Times:	5 °C	20 °C	30 °C
Set to Touch	1H	1/2H	1/3H
Dry Hard	2H	1H	2/3H
For Over coat (Min.)	6H	3H	2H

\* H: Hour

C. Consistency: Ready for use

D. Thinner: Tap-Water (Max. 10% at 1st coating, Max. 5% at 2nd coating)

E. Specific Gravity: Appr. 1.36

F. Theoretical Coverage: 5~8m<sup>2</sup>/L/2 coats/60μ (Dry film thickness)

G. Shade: White and tints

H. Texture: Flat

**■DIRECTION FOR USE**

**A. Surface Preparation**

1. Eliminate oil, water, grit, dirt, marked paint and any foreign matters.

**B. Preparation of Paint**

1. Stir to be mixed uniformly.  
 2. Avoid excessive thinning.

**C. Application**

1. Can be applied by brush, spray.

**■OTHER CAUTIONS -**

- Will not form a homogeneous film below 5 °C (41 °F) or at humidities greater than 95% R.H.
- Don't store or ship the paint at temperatures less than 5 °C (41 °F) nor above 35 °C (95 °F)

3. Surface to be painted shall be prepared an instrument-measured moisture content not exceeding 8% and less than 9 pH.

\* The information and date given herein are based upon tests and experiences considered reliable, and are believed to be accurate. The coverage depend on the shape of surface to be coated, surface roughness, weathe conditions during application and application method, so that you are urged fully to review them prior to your practical application.

\* The date of issue: 2008.12

# MATERIAL SAFETY DATA SHEET

## SECTION I GENERAL INFORMATION

A. PRODUCT NAME: Ultra Primer ( MPI 50 )

Primer Sealer, Latex, Interior

B. MANUFACTURERS NAME: NOROO Paint & Coatings Co., Ltd.

615 PARK DAL DONG, AN YANG CITY

KYUNG KI DO, KOREA

TEL: (031)467-6150

## SECTION II COMPOSITION

CHEMICAL NAME	CAS NO	CONTENTS
ACRYLIC POLYMER	NOT HAZARD	20~45
ETHYLENE GLYCOL	107-21-1	2 MAX
WATER	7732-18-5	20~30
TITANIUM DIOXIDE	13463-67-7	15~25
TALC	14807-96-8	10~20
S1	-	0~3

## SECTION III PHYSICAL PROPERTIES

BOILING RANGE	200~225 deg.F
EVAPORATION RATE	SLOWER THAN ETHER
VAPOR DENSITY	HEAVIER THAN AIR
% VOLATILE VOLUME	50 MAX
SPECIFIC GRAVITY	1.2~1.4
VISCOSITY	80~100KU

## SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:

FLASH POINT: NOT ESTABLISHED

LEL: N/A

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO<sub>2</sub>, DRY CHEMICAL, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:

EXTINGUISHING MEDIA ABOVE IS RECOMMENDED ON DRIED FILMS OF THIS MATERIAL THAT IS BURNING. THIS MATERIAL IS NON-COMBUSTIBLE BUT DRIED FILMS ARE CAPABLE OF BURNING AND SUPPORTING COMBUSTION WHEN IN CONTACT WITH OPEN FLAMES.

SPECIAL FIREFIGHTING PROCEDURES:

OBSERVE RECOMMENDED PROCEDURES IN HANDLING FIRE AREAS. WEAR APPROPRIATE FIRE FIGHTING EQUIPMENT INCLUDING A SELF CONTAINED BREATHING APPARATUS.

## SECTION V – HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

VAPOR ODORS MAY CAUSE IRRITATION IN THE UPPER AND LOWER RESPIRATORY TRACTS, NAUSEA, HEADACHES, AND DIZZINESS. EYE CONTACT CAN CAUSE IRRITATION, REDNESS, AND VOMITING, DIARRHEA, AND GASTROINTESTINAL IRRITATION.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

OVEREXPOSURE TO VAPORS CAN PRODUCE HEADACHES, DIZZINESS, AND NAUSEA.

PRIMARY ROUTE(S) OF ENTRY: INHALATION, INGESTION

EMERGENCY AND FIRST AID PROCEDURES:

IF AFFECTED BY VAPORS, MOVE PERSON TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION TO PERSON WHO LOSES CONSCIOUSNESS AND CALL A DOCTOR IMMEDIATELY. TREAT EYE

AND SKIN CONTACT BY THOROUGHLY WASHING WITH CLEAN WATER. IF IRRITATION PERSISTS SEE A DOCTOR IMMEDIATELY. IF MATERIAL IS INGESTED AND THE PERSON IS CONSCIOUS GIVE TWO GLASSES OF WATER TO DRINK AND CALL A DOCTOR IMMEDIATELY.

## SECTION VI – REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS POLYMERIZATION INFORMATION IS NOT ESTABLISHED.

HAZARDOUS DECOMPOSITION PRODUCTS:

BURNING CAN PRODUCE CARBON DIOXIDE AND OR CARBON MONOXIDE.

CONDITIONS TO AVOID:

AVOID TEMPERATURES BELOW 40 degrees Fahrenheit. AVOID FREEZING CONDITIONS.

INCOMPATIBILITY (MATERIALS TO AVOID):

AVOID MATERIALS THAT REACT WITH WATER, ALSO STRONG ACIDS AND ALKALIS.

## SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

DIKE AND ABSORB SPILLED MATERIAL WITH INERT ABSORBENT MATERIAL SUCH AS SAND, EARTH, AND SAW DUST. USE RAGS TO CLEAN UP SMALL AMOUNTS OF SPILLED MATERIAL.

WASTE DISPOSAL METHOD:

COLLECT MATERIAL CONTAMINATED ABSORBENT AND RAGS INTO A DISPOSABLE CONTAINER AND DISPOSE OF IN ACCORDANCE TO LOCAL, STATE, AND FEDERAL REGULATIONS. CONSULT WITH YOUR LOCAL HAZARDOUS WASTE REGULATIONS REGARDING LANDFILL DUMPING.

## SECTION VIII – SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION:

WEAR APPROVED ORGANIC VAPOR RESPIRATOR UNLESS VENTILATION EQUIPMENT IS ADEQUATE TO KEEP AIRBORNE CONCENTRATIONS BELOW THE EXPOSURE STANDARDS.

VENTILATION:

GENERAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO KEEP PRODUCT VAPOR CONCENTRATIONS BELOW SPECIFIED TLV RANGES. IF INADEQUATE, USE LOCAL EXHAUST.

PROTECTIVE GLOVES:

USE IMPERMEABLE SOLVENT RESISTANT GLOVES TO PROTECT FROM SKIN CONTACT.

EYE PROTECTION:

USE SAFETY GOGGLES, CHEMICAL SAFETY GLASSES AND OR FACE SHIELDS TO PROTECT EYES

OTHER PROTECTIVE EQUIPMENT:

IMPERMEABLE APRONS AND PROTECTIVE CLOTHING ARE ADVISED WHEN WORKING WITH THIS PRODUCT. THE USE OF HEAD CAPS ARE RECOMMENDED WHENEVER POSSIBLE.

HYGIENIC PRACTICES:

EYE WASHES AND SAFETY SHOWERS IN THE WORKPLACE ARE RECOMMENDED.

## SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT STORE OR HANDLE NEAR HEAT, FLAMES AND STRONG OXIDANTS. INSPECT FOR LEAKS IN ALL CONTAINERS.

OTHER PRECAUTIONS:

DO NOT STORE IN FREEZING AREAS. KEEP ABOVE 40 degrees F. KEEP OUT OF REACH OF CHILDREN.

\* \* DISCLAIMER– THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED  
\* \* ACCURATE. HOWEVER, NO WARRANTY, WHETHER EXPRESSED OR IMPLIED IS MAE.

**KOREA CONFORMITY LABORATORIES**

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**Certificate of Testing (Inspection) Result**

Sample No. of Issue : TSRB15002  
 Name of Applicant : NOROO Paint & Coatings Co., Ltd. Kim Soo Kyoung  
 Address of Applicant : 615, Bakdal 2-dong, Manan-gu, Anyang-si, Gyeonggi-do, Korea  
 Date of Receipt : 2010-11-15  
 Name of Test Sample : Ultra Primer (MPI #50)

**Result of Testing (Inspection)**

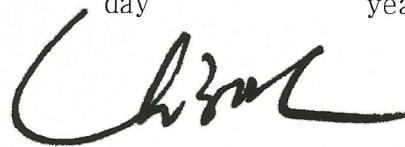
Test Items	Unit	Sample	Results	Test Method
Consistency	K.U.	1	104	MPI # 50 : 2010
Dry time, Dry hard	min	1	30	MPI # 50 : 2010
Finess of Grind	NS	1	6	MPI # 50 : 2010
Hiding power	%	1	98	MPI # 50 : 2010
Reflectance	%	1	91	MPI # 50 : 2010
Alkali Resistance	-	1	pass	MPI # 50 : 2010
Enamel Holdout	-	1	pass	MPI # 50 : 2010
Sanding Properties	-	1	pass	MPI # 50 : 2010
VOCs content	g/L	1	Not detected	EPA-method 24

※ Object of Test :Quality control

The above is the result of testing (inspection) specimen provided by the applicant, and the name of sample has been submitted by the applicant

Jan. 10 2011  
 month day year

Signed :



**The general manager of Korea Conformity Laboratories**

