NAVSEA REVIEWED ASTM F-718

International Paint LLC

Intergard 9000NP High Solids, Edge Retentive Universal Primer

PRODUCT DESIGNATIONS

Part A: KUA980 Bronze or KUA981 Aluminum (Gray)

Part B: KUA983

MIL-PRF-23236
MIL-PRF-24647

If this product is to be applied as part of a coating system, all components of the system must be as listed on the QPL.

This NAVSEA-REVIEWED ASTM F-718 data sheet is the only data sheet approved for use when utilizing this coating for U.S. Navy preservation projects. NAVSEA's review covers only the application process for the material. The review does not denote the material as a qualified product, nor does it constitute an approval for purchase/procurement of the material. For products on the Qualified Products List (QPL) for this MILSPEC, please refer to http://qpldocs.dla.mil/search/default.aspx.

Questions regarding modifications or updates of this ASTM F-718 shall be directed toward:

NSWCPD
NSWCPD_ASTM_F718.fct@navy.mil

SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

CONTINUATION SHEET USED: ☐ YES ☐ NO

Date: 04/2018 Rev. A1

I. GENERIC TYPE AND DESCRIPTION: Intergard 9000NP High Solids, Edge Retentive Universal Primer
Specification Number: MIL-PRF-23236, MIL-PRF-24647

II. MANUFACTURERS DATA:

(a) MANUFACTURER: International Paint LLC, 6001 Antoine Drive, Houston, TX 77091

(b) PRODUCT DESIGNATION: Part A: KUA980 Bronze or KUA981 Aluminum (Gray) Part B: KUA983

(c) COLOR(S): Bronze & Aluminum (Gray)

(d) USES: Wet Spaces, Ballast Tanks, interior and exterior areas above and below waterline

(e) TECHNICAL SERVICE REPRESENTATIVE
(Include Telephone Numbers): 1-800-525-6824 (or contact your local International Paint representative)

(f) NOT INTENDED FOR USE IN: Potable Water

III. PROPERTIES:

(a) PERCENT VOLUME SOLIDS (ASTM D2697): 78 %± 2 %

(b) PERCENT WEIGHT SOLIDS (ASTM D2369): 86 % ± 3 %

(c) FLASH POINT (ASTM D3278): Part A 108 °F, Part B 104 °F, Mixed 106 °F

(d) WEIGHT PER VOLUME (ASTM D1475): KUA980 Bronze Part A 11.74 – 12.14 lbs/gal, KUA981 Aluminum (Gray) Part A 11.54-11.94 lbs/gal, KUA983 Part B 7.89-8.29 lbs/gal, KUA980 Bronze mixed: 10.64- 11.04 lbs/gal, KUA981 Aluminum mixed: 10.50 – 10.90 lbs/gal

(e) PERCENT EDGE RETENTION (Test Method MIL-PRF-23236 Appendix A): 100 %

(f) SHELF LIFE: 12 months (Part A and Part B)

(g) VISCOSITY (ASTM D4287): PART A: 5.6 – 9.8 Poise

PART B: 5 – 8 Poise

MIXED: 5 – 9 Poise

(h) PACKAGING: Part A: 2.5 gallons in a 5 gallon container, Part B: 1 gallon in a 1 gallon container

(i) NUMBER OF COMPONENTS: 2

(j) GLOSS (ASTM D523): 30 Gloss Units (60 °)

(k) STORAGE REQUIREMENTS: TEMPERATURE 40 °F MIN. 100 °F MAX.

ADDITIONAL PAINT STORAGE REQUIREMENTS: Refer to NAVSEA Standard Item 009-32

(l) VOLATILE ORGANIC COMPOUNDS (VOCS- EPA TEST METHOD 24): 206 g/L or 1.72 lb/gal

(m) WEIGHT PER AREA OF DRY FILM AT 1 MIL THICKNESS: 0.008317 lb/sq. ft

(n) SPECIAL PROPERTIES: Surface Tolerant, Edge retentive, Low temperature cure, aluminum pigmentation

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS:

(a) INITIAL: Abrasive Blast to SSPC-SP 10 or Hydroblasting to SSPC-SP WJ-2 L. At Maintenance & Repair, Intergard 9000NP may be applied to surfaces prepared to SSPC-SP WJ-2L & M.

(b) TOUCH-UP: Ensure the area is clean and dry. Power Tool Clean to SSPC-SP11, or spot blast to SSPC-SP 10, or hydroblast SSPC-SP WJ-2L or M.

(c) PROFILE (INCLUDE METHOD USED): 2 mils MIN. 4 mils MAX. (Profilometer Gauge or Testex Replica Tape)

(d) SPECIAL INSTRUCTIONS: Profile 2-4 mils recommended, up to 6 mil profile acceptable. Follow NAVSEA STD ITM 009-32 guidelines

(e) PRIMER REQUIREMENTS: Not Required. This product can be applied directly over intact Interplate 937, Interplate 997, Interplate Zero, or Intergard 292 shop primers which has been cleaned to SSPC-SP1 standard, except in areas receiving nonskid or those described in 009-32.

(f) MAXIMUM ALLOWABLE CONDUCTIVITY (ISO 8502-6): 10 µg/cm² for immersed and non-immersed areas

(g) MAXIMUM DEGREE OF FLASH RUSTING ALLOWED: SSPC-SP WJ-2L & M.

SPECIAL SAFETY PRECAUTIONS:

PLEASE REFER TO MATERIAL SAFETY DATA SHEET

V. MIXING PROCEDURES:

(a) MIXING RATIOS BY WEIGHT: N/A
BY VOLUME: 2.5:1 (A:B)

(b) INDUCTION TIME: N/A

(c) RECOMMENDED CLEANING SOLVENT (NO THINNING ALLOWED): GTA415 or GTA220

(d) POT LIFE:

50 Min(s) @ 95 ºF
60 Min(s) @ 77 ºF
100 Min(s) @ 41 °F
120 Min(s) @ 23 °F

(e) SPECIAL INSTRUCTIONS: Pre-mix Part A one minute using appropriate drill and Jiffy blade or equivalent suitable for a 5 gallon container. Empty Part B into Part A. Thoroughly mix Parts A & B together in order to fully incorporate all coating components.

VI. APPLICATION:

(a) ENVIRONMENTAL LIMITATIONS:

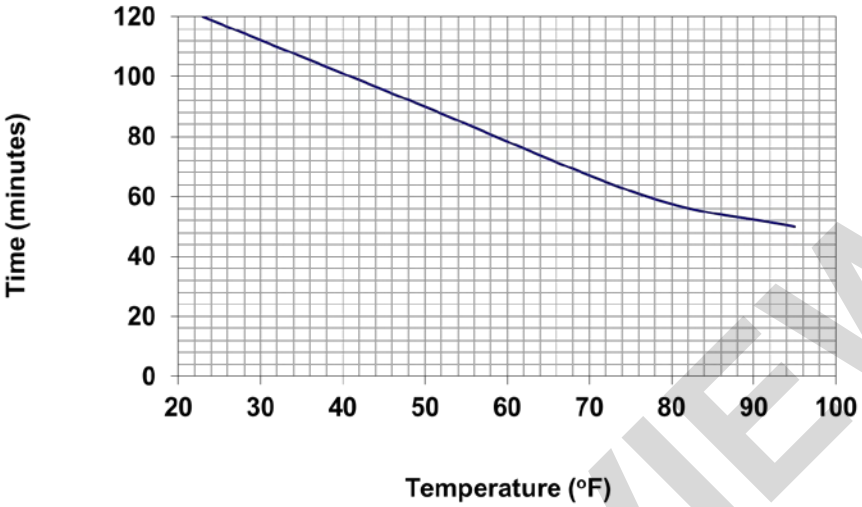
SUBSTRATE TEMPERATURE: 23 °F MIN. 120 °F MAX.
AMBIENT TEMPERATURE: 20 °F MIN. 100 °F MAX.
MINIMUM SUBSTRATE TEMPERATURE DIFFERENCE ABOVE THE DEW POINT: 5°F
MAXIMUM PERCENT RELATIVE HUMIDITY: Refer to NAVSEA Standard item 009-32

(b) FILM THICKNESS (SSPC PA2-73T) - PER COAT:

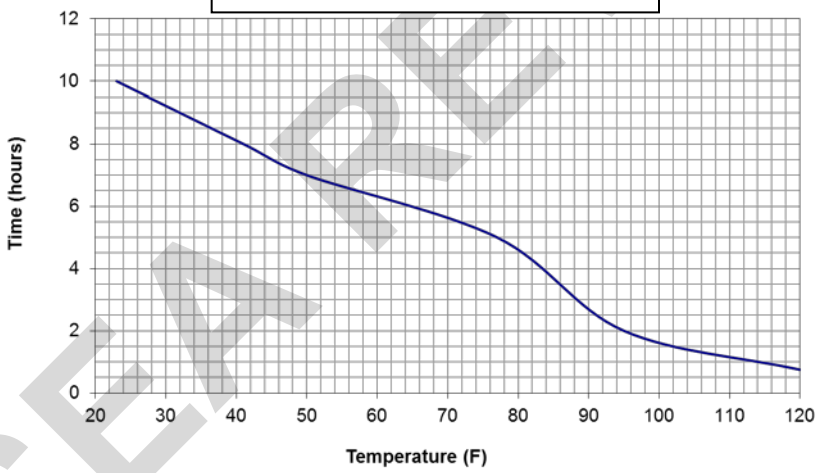
WET MIN. 5.1 mils WET MAX. 20.2 mils
DRY MIN. 4 mils DRY MAX. 15.6 mils
TOTAL SYSTEM: Max total film thickness 38mils DFT

(c) DRY TIMES (ASTM D1640): See below Graphs

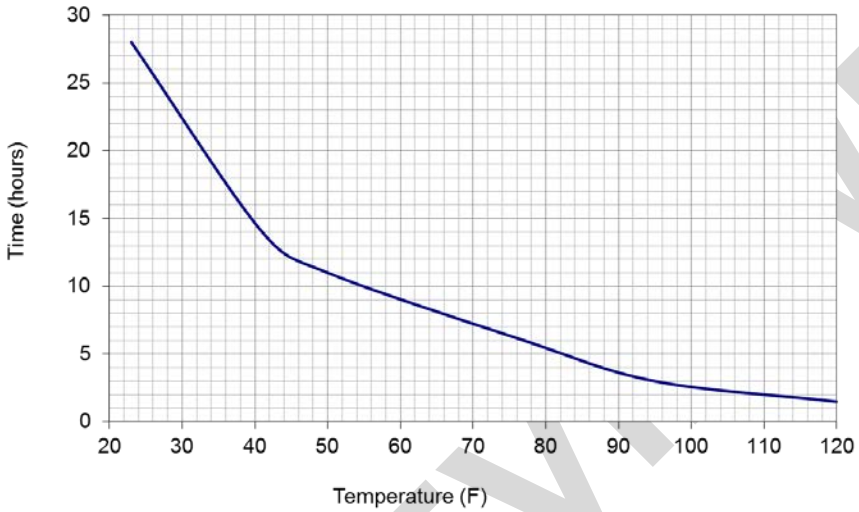
Intergard 9000NP Pot Life



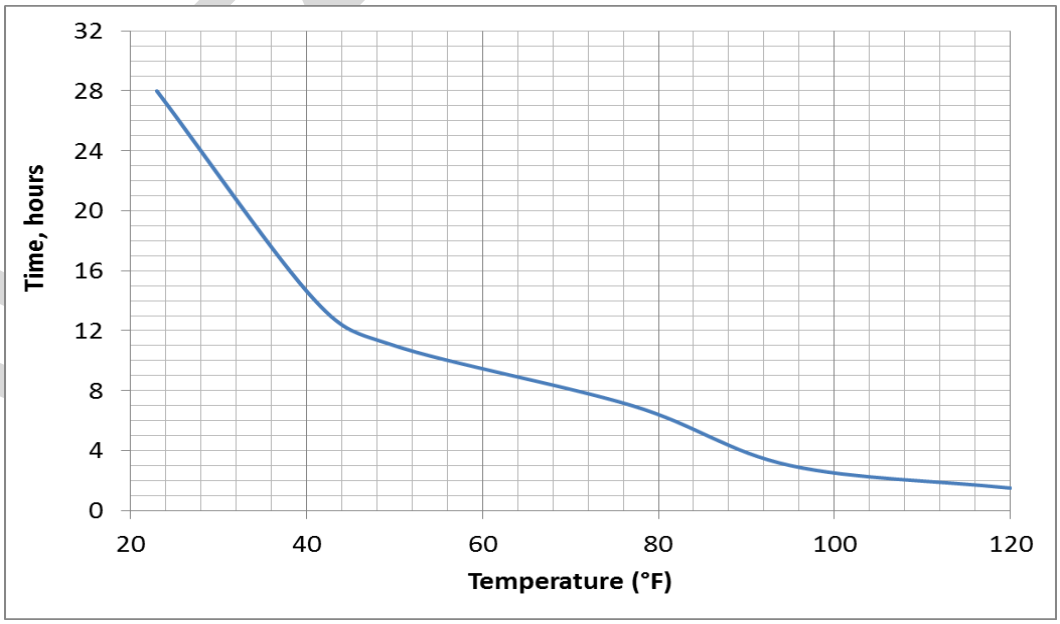
Intergard 9000NP Touch Dry



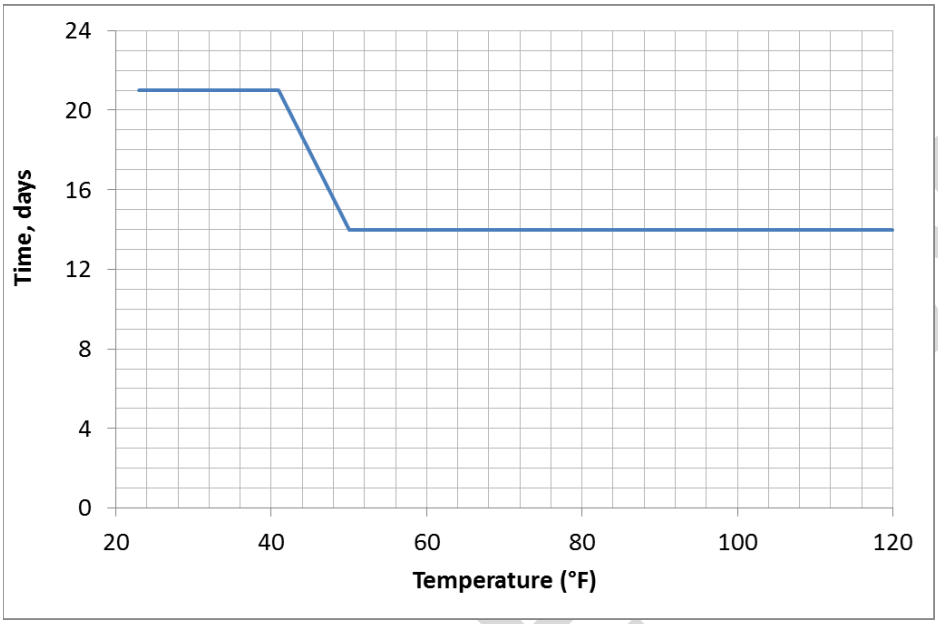
Intergard 9000NP Hard Dry



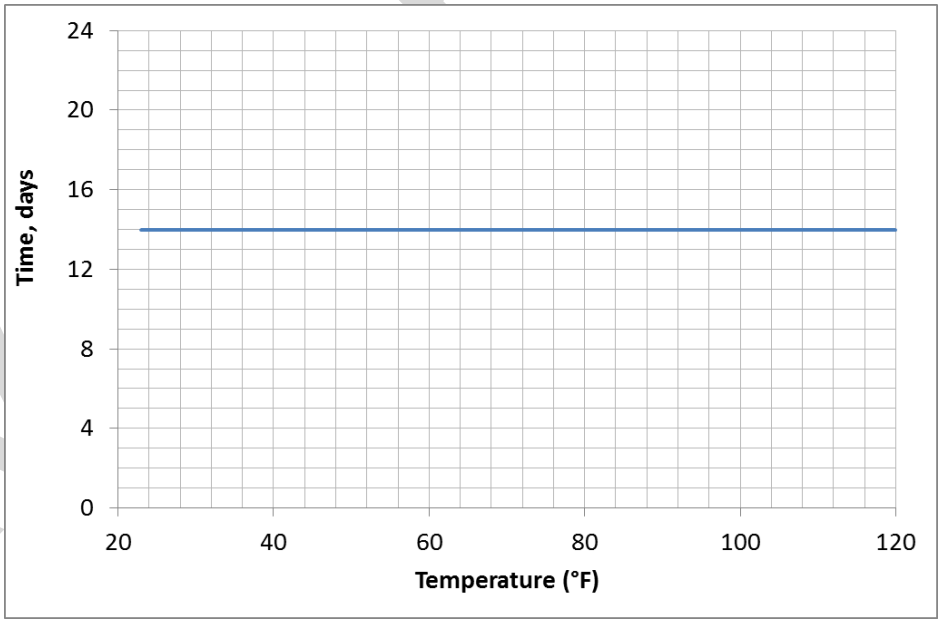
Intergard 9000NP Min recoat Self-Self, Intergard 264 & Intertuf 262



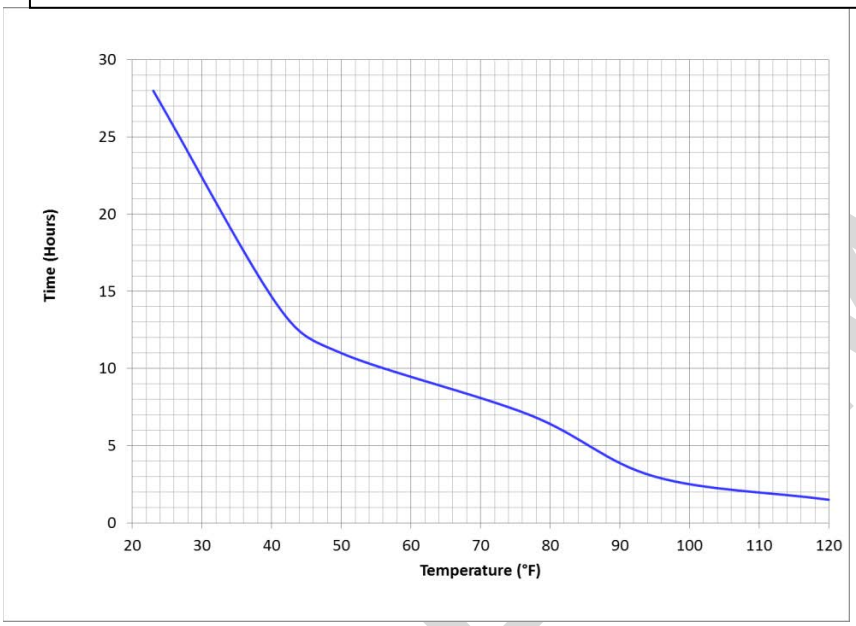
Intergard 9000NP Max recoat Self-Self



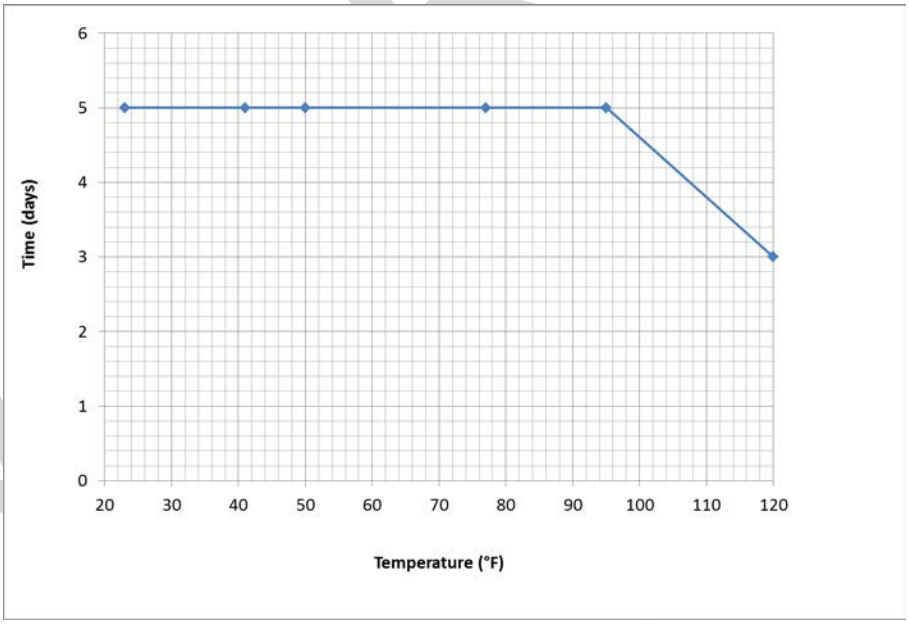
Intergard 9000NP Max recoat with Intergard 264 & Intertuf 262



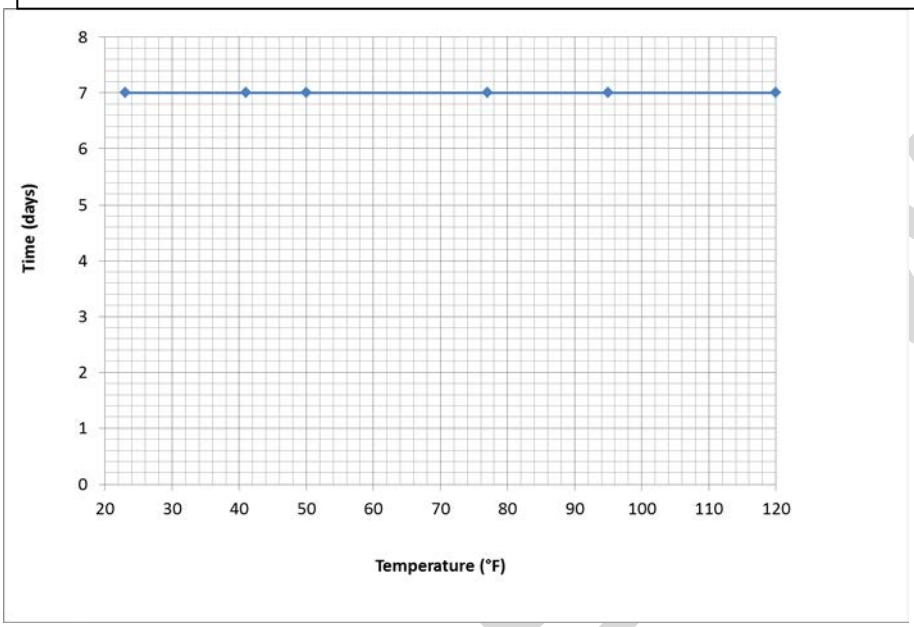
Intergard 9000NP Min recoat with Interfine 979SG



Intergard 9000NP Max recoat with Interfine 979SG- Boottop to Freeboard



Intergard 9000NP Max recoat with Interfine 979SG- Superstructure



(d) EQUIPMENT REQUIREMENTS: Airless Spray recommended. Brush and roll acceptable for small areas only

(e) SPECIAL INSTRUCTIONS:

When overcoating with antifouling, we recommend the use of Intergard 264 or Intertuf 262 as the second coat of epoxy will offer longer overcoating properties.

PROVIDE INFORMATION FOR REPAIR PROCEDURES IF THE OVERCOAT WINDOW HAS BEEN EXCEEDED:

When overcoating Intergard 9000NP (with itself, Intergard 264 or Intertuf 262) and the overcoat window of Intergard 9000NP has been exceeded, clean surface of coating per SSPC-SP 1, aggressively abrade surface with 80 grit sandpaper or equivalent to promote adhesion, clean surface to SSPC-SP 1 again.

When overcoating Intergard 9000NP with Interfine 979SG and the overcoat window for Interfine 979SG is missed however within the Intergard 9000NP Self-self overcoat window, another coat of Intergard 9000NP is recommended. However, if Intergard 9000NP self-self has been exceeded, then clean surface of coating per SSPC-SP 1, aggressively abrade surface with 80 grit sandpaper or equivalent to promote adhesion, clean surface to SSPC-SP 1 again and apply a tack coat of Intergard 9000NP prior to Interfine 979SG.

ADDITIONAL DATA/INSTRUCTIONS:

II. MANUFACTURERS DATA:

III. PROPERTIES: Due to the edge retentive properties of Intergard 9000NP, additional DFT readings may be substituted for a stripe coat. DFT readings should be taken as per Attachment A of STD Item 009-32.

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS: Cleaning via UHP-WJ does not create an anchor tooth profile. Additional blasting may be necessary to create an acceptable specified profile prior to application of approved primer

V. MIXING PROCEDURES:

VI. APPLICATION REQUIREMENTS:

Dry times are normally a function of humidity, ventilation and temperature. Information given is to be used as a guideline only.

The technical data given herein has been compiled for your assistance and guidance. It is based upon our experience and knowledge. However, as we have no control over the use to which this information is put, no warranty, expressed or implied, is intended or given.