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MSGID/GENADMIN,USMTF,2010/COMNAVSEASYS COM WASHINGTON DC//

SUBJ/APPROVAL OF HIGH-DURABILITY DECK COATING FOR INTERIOR USE SYSTEMS//

REF/A/MSG/NAVSEA/201605ZSEP2006//

REF/B/DOC/-/01JAN2009//

REF/C/DOC/NAVSEA/24JUL2009//

REF/D/DOC/-/27AUG2009//

REF/E/DOC/NAVSEA/24JUL2009/

REF/F/DOC/-/22MAY2008//

NARR/REF A IS THE MOST RECENT, NAVSEA APPROVED, DECK COVERINGS MESSAGE. REF B IS THE CURRENT NAVAL SHIPS TECHNICAL MANUAL CHAPTER 634, "DECK COVERINGS, GENERAL" S9086-VG-STM-010 CHAPTER 634, REVISION 4. REF C IS THE CURRENT NAVSEA STANDARD ITEM FOR DECK COVERINGS, NAVSEA STANDARD ITEM 009-26, "DECK COVERING REQUIREMENTS; ACCOMPLISH." REF D IS THE MOST RECENT MILITARY SPECIFICATION MIL-PRF-32171B "DECK COATINGS, HIGH DURABILITY." REF E IS THE CURRENT NAVSEA STANDARD ITEM FOR PAINTING AND PRESERVATION, NAVSEA STANDARD ITEM 009-32, "CLEANING AND PAINTING REQUIREMENTS; ACCOMPLISH." REF F IS THE MOST RECENT MILITARY SPECIFICATION MIL-PRF-24667 "COATING SYSTEM, NON-SKID, FOR ROLL, SPRAY, OR SELF-ADHERING APPLICATION."

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GENTEXT/RMKS/1. PURPOSE: TO AMEND REFERENCES A, B, C AND D TO DESCRIBE APPROVED AREAS OF APPLICATION FOR HIGH-DURABILITY DECK COATING.

2. BACKGROUND: AS COMPARED WITH CONVENTIONAL OR LEGACY DECKING SYSTEMS (E.G., HIGH-DURABILITY DECK TILE, CERAMIC TILE, ELECTRICAL-GRADE MATTING, COLORFLAKE, TERRAZZO, OR OTHER COSMETIC POLYMERIC SYSTEMS), THE USE OF HIGH-DURABILITY DECK COATINGS CAN REDUCE DECKING WEIGHT AND INSTALLATION COSTS. HOWEVER, SERVICE LIFE OF HIGH-DURABILITY DECK COATINGS WILL BE LESS THAN THAT OF CONVENTIONAL DECKING SYSTEMS WITH OBSERVED COATING SERVICE LIFE BEING LESS THAN 2.5 YEARS IN HIGH-TRAFFIC AREAS.

3. HIGH-DURABILITY DECK COATINGS INSTALLED ON A NAVY SHIP MUST BE QUALIFIED TO REF D AND LISTED ON EITHER REF A OR ON THE REF D QUALIFIED PRODUCTS LIST. ALL HIGH-DURABILITY DECK COATINGS ARE TO BE APPLIED IN ACCORDANCE WITH REF E WHILE CONVENTIONAL DECKING IS TO BE APPLIED IN ACCORDANCE WITH REF C.

4. HIGH-DURABILITY, TYPE I OR TYPE II DECK COATINGS ARE APPROVED FOR USE IN THE FOLLOWING AREAS:

- A. DRY, INTERIOR SPACES SUCH AS OFFICES, BERTHING SPACES, MANNED STOREROOMS, AND DRY GOODS STOREROOMS WITH STORAGE RACKS INSTALLED.
- B. PILOT HOUSE, CONTROL STATIONS, CHART ROOM, COMBAT INFORMATION CENTER, BARBER SHOP, AND SHIP'S STORE.
- C. PASSAGEWAYS.
- D. CARPENTER AND MACHINE SHOPS, AND OTHER SHOP SPACES.
- E. LABORATORY AND ELECTRICAL/ELECTRONIC WORKSHOPS SUCH AS CCTV CONTROL ROOMS, ELECTRIC POWER CONVERSIONS, IC AND GYRO ROOMS, RADAR ROOMS, AND CONTROL ROOMS.

- F. MACHINERY SPACES (EXCLUDING BILGES) IN WORKING AREAS AROUND MACHINERY.
- G. MEDICAL SPACES, WITH WRITTEN APPROVAL FROM BUMED.
- H. OTHER WET, WORKING SPACES SUCH AS NIXIE ROOMS.

5. HIGH-DURABILITY, TYPE III DECK COATINGS ARE APPROVED, WITHOUT A WATERPROOF MEMBRANE, FOR USE IN THE FOLLOWING AREAS:

- A. MESSING AREAS,
- B. SANITARY SPACES, WASHROOMS, AND SMALL ENCLOSED SPACES ATTACHED TO SANITARY SPACES SUCH AS CLOSETS CONTAINING HOT WATER HEATERS.
- C. WET OR DRY UNMANNED SPACES OR EQUIPMENT ROOMS.

6. HIGH-DURABILITY DECK COATINGS ARE NOT APPROVED FOR USE IN THE FOLLOWING AREAS:

- A. GALLEYS, SCULLERIES, AND FOOD PREPARATION AREAS, BILGES, HANGER DECKS, AND FLIGHT DECKS.

7. IN CONJUNCTION WITH HIGH DURABILITY DECK COATINGS, ELECTRICAL GRADE MATS ARE REQUIRED IN ELECTRICAL/ELECTRONIC WORKSHOPS AND MACHINERY SPACES WITH SWITCHBOARDS.

8. PEEL AND STICK OR RESIN-BASED NONSKID QUALIFIED TO REF F OR LISTED ON REF A CAN BE APPLIED TO THE HIGH-DURABILITY DECK COATINGS IN AREAS WHERE ADDITIONAL SLIP-RESISTANCE IS REQUIRED SUCH AS SHOP SPACES, MACHINERY SPACES, WET WORKING SPACES, OR EXTERIOR WALKWAYS.

9. UNLIKE OTHER CONVENTIONAL DECK COVERINGS, HIGH-DURABILITY DECK COATINGS HAVE MINIMAL ABILITY TO LEVEL OR SMOOTH OVER DECK PLATING DISHING AND IRREGULARITIES LIKE WELD SEAMS. ACTIVITIES SPECIFYING THE USE OF HIGH-DURABILITY DECK COATINGS SHOULD ANTICIPATE A MORE ROUGH AND IRREGULAR APPEARANCE FROM THE FINAL DECK THAN WOULD BE EXPECTED FROM A CONVENTIONAL DECKING SYSTEMS.

10. QUESTIONS REGARDING DECK COVERING ISSUES SHOULD BE DIRECTED TO MR. T. J. MCKELVEY, NSWCCD-SSSES, CODE 6140 AT (215) 897-1867. QUESTIONS REGARDING HIGH-DURABILITY DECK COATINGS SHOULD BE DIRECTED TO THE NAVSEA 05P23, COATINGS AND CORROSION CONTROL, TECHNICAL WARRANT HOLDER, MR. MARK INGLE, PE, AT (202) 781-3665.

11. RELEASED BY CAPT A. DESROCHES, USN. MINIMIZE CONSIDERED.//