

GENERAL NOTES

AREAS OF WORK:

THE ENGINEER SHALL PREFORM SOUNDING ON THE WALL, PRIOR TO CONSTRUCTION, TO DETERMINE AREAS TO BE REPAIRED. THESE AREAS SHALL BE MARKED IN ACCORDANCE WITH THE FINDINGS OF THE SOUNDING TEST. ANY AREAS FOUND TO BE IN NEED OF REPAIR AFTER SOUNDING SHALL BE APPROVED BY THE ENGINEER.

WALL REPAIR QUANTITIES

DUE TO THE NATURE OF THIS REPAIR WORK, THE ACTUAL QUANTITY OF REPAIR WORK TO BE PERFORMED IS UNKNOWN. THE FINAL QUANTITY WILL BE REFLECTED IN THE FINAL CHANGE ORDER. THE UNIT PRICE INCREASE OF TABLE 1 IN THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL NOT APPLY TO THE WALL REPAIR QUANTITIES.

ITEM SPECIAL-CONCRETE REPAIR (2" DEPTH OR GREATER)

ON CONCRETE REPAIR AREAS THAT ARE 2" OR GREATER THE FOLLOWING MATERIAL AND PROCESS SHALL BE USED AND INCLUDED IN THE UNIT BID PRICE. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY (SHEET NO. 4) - 100 SQ. YD.

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EMACS66-CR

DESCRIPTION: HEAVY-DUTY CORROSION-RESISTANT REPAIR CONCRETE.  
APPLICATION: HORIZONTAL AND FORMED VERTICAL AND OVERHEAD APPLICATIONS IN INTERIOR AND EXTERIOR ENVIRONMENTS.  
PACKAGING: EMACO S66-CR IS PACKAGED IN 55 LB (25 KG) MOISTURE-RESISTANT BAGS. THE YIELD IS 0.43CU.FT. (0.012 M.C.) PER 55 LB (25 KG) BAG.  
STORAGE LIFE: EMACO S66-CR HAS A SHELF LIFE OF APPROXIMATELY 18 MONTHS WHEN STORED IN A COOL, DRY ENVIRONMENT. THE EXPIRATION DATE IS PRINTED ON EACH BAG.  
COVERAGE: A 55 LB (25 KG) BAG OF EMACO S66-CR MORTAR WILL COVER APPROXIMATELY 5.0 SQ.FT. (0.46 M.C.) AT A 1" (25 MM) THICKNESS.

SURFACE PREPARATION:

1. SQUARE CUT OR UNDER CUT THE PERIMETER OF THE AREA TO BE PATCHED TO A DEPTH OF 1" (25 MM). DO NOT CUT THE REINFORCEMENT.
2. CHIP UNSOUND CONCRETE WITHIN THE AREA TO BE REPAIRED TO A DEPTH OF 1" (25 MM) OR TO WHATEVER ADDITIONAL DEPTH IS NECESSARY TO REACH SOUND CONCRETE.
3. REMOVE AREAS THAT HAVE BEEN SATURATED WITH OIL OR GREASE.
4. THOROUGHLY CLEAN THE ROUGHENED SURFACE AND EXPOSED REINFORCEMENT OF DIRT, LOOSE CHIPS AND DUST. HIGH PRESSURE (200 PSI) (1.4 MPA) WATER WORKS WELL. USE OIL FREE COMPRESSED AIR TO REMOVE ALL STANDING WATER.
5. FORM AS REQUIRED ON VERTICAL SURFACES.
6. SATURATE THE AREA THOROUGHLY WITH WATER FOR SEVERAL HOURS PRIOR TO PLACING THE MORTAR.
7. IMMEDIATELY PRIOR TO MIXING, BLOW OFF OR REMOVE ALL EXCESS WATER FROM REPAIR AREA. SURFACE SHOULD BE SATURATED, SURFACE DRY ((SSD)).

BONDING:

1. APPLY A BOND SCRUB COAT ON THE CLEAN, ROUGHENED SURFACE BEFORE THE APPLICATION OF EMACO S66-CR. THOROUGHLY BOND SCRUB A THIN LAYER OF EMACO S66-CR INTO THE SATURATED SURFACE WITH A STIFF BRISTLE BROOM OR BRUSH. DO NOT APPLY MORE OF THIS BOND COAT THAN CAN BE COVERD WITH CONCRETE BEFORE THE BOND COAT DRIES. DO NOT RETEMPER THIS BOND COAT.
2. A BONDING ADHESIVE SUCH AS CONGRESIVE LIQUID LPL OR CONGRESIVE STANDARD LIQUID MAY BE USED, IF NO MOISTURE TRANSMISSION OR MOISTURE GRADIENT IS OCCURRING FROM THE SUBSTRATE; HOWEVER, IT IS NOT REQUIRED FOR MOST APPLICATIONS. A BOND COAT SLURRY IS NOT REQUIRED WHEN A BONDING ADHESIVE IS USED.

MIXING:

MECHANICAL MIXING IS RECOMMENDED WITH USE OF A SLOW SPEED DRILL (400 TO 600 RPM) AND A JIFFLER-TYPE PADDLE, OR IN AN APPROPRIATE SIZE MORTAR MIXER. ADD ENOUGH WATER TO THE MIXING CONTAINER TO OBTAIN A SLUMP OF 4 TO 6 INCHES (100 TO 150 MM), APPROXIMATELY 0.6 GALS. (2.3 LITRES) PER BAG. ADD THE CONTENTS OF THE BAG TO THE CONTAINER WHILE CONTINUING TO MIX. MIX TO A UNIFORM CONSISTENCY. TYPICAL MIXING TIME IS 3 TO 5 MINUTES. DO NOT MIX LONGER THAN 5 MINUTES.

APPLICATION AND FINISHING:

APPLY THE MORTAR ON TOP OF THE PREWETTED SUBSTRATE ON STILL DAMP BOND COAT SLURRY. MINIMUM APPLICATION THICKNESS IS 1" (25 MM). EMACO S66-CR MAY BE FINISHED BY HAND OR MACHINE SIMILARLY TO OTHER CONCRETE PLACEMENTS. WHERE RAPID SURFACE EVAPORATION MAY OCCUR, IN HOT, DRY OR WINDY CONDITIONS, USE CONFLM EVAPORATION REDUCER.

CURING:

EMACO S66-CR MORTAR MUST BE CURED PROPERLY. APPLY MASTERKURE, OR MASTERKURE 100W OR 200W CURING COMPOUNDS IN ACCORDANCE WITH LABEL INSTRUCTIONS AS SOON AS THE SURFACE CANNOT BE MARRED BY THE APPLICATION. SHEETING MATERIAL, WET BURLAP OR FOG SPRAY MAY BE USED IN LIEU OF CURING COMPOUNDS. MINIMUM CURING TIME FOR WET CURING IS 7 DAYS.

ITEM SPECIAL-CONCRETE REPAIR (2" DEPTH OR LESS)

ON CONCRETE REPAIR AREAS THAT ARE LESS THAN 2" THE FOLLOWING MATERIAL AND PROCESS SHALL BE USED AND INCLUDED IN THE UNIT BID PRICE. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY (SHEET NO. 4) - 50 SQ. YD.

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EMACO S88-CA

DESCRIPTION: EMACO S88-CA IS A ONE COMPONENT, RHEOPLASTIC, CEMENT-BASED, FIBER REINFORCED SHRINKAGE COMPENSATED STRUCTURAL REPAIR MORTAR.  
APPLICATION: SPRAYED OR HAND APPLIED REPAIRS ON VERTICAL OR OVERHEAD CONCRETE.  
PACKAGING: EMACO S88-CA IS PACKAGED IN 55 LB (25 KG) MOISTURE-RESISTANT BAGS. THE YIELD IS 0.45 CU.FT. (0.013 M.C.) PER 55 LB. (25 KG) BAG.  
STORAGE LIFE: EMACO S88-CA HAS A SHELF LIFE OF APPROXIMATELY 18 MONTHS WHEN STORED IN A COOL, DRY ENVIRONMENT. THE EXPIRATION DATE IS PRINTED ON EACH BAG.  
COVERAGE: A 55 LB (25 KG) BAG OF EMACO S88-CA MORTAR WILL COVER APPROXIMATELY 5.4 FT.SQ. (0.52 M.SQ.) AT A 1" (25 MM) THICKNESS. FOR ESTIMATING PURPOSES, ALLOWANCE MUST BE MADE FOR ANTICIPATED CUT OFF AND ANY OTHER WASTE WHICH WILL REDUCE IN-PLACE COVERAGE ACCORDINGLY.

SURFACE PREPARATION:

1. SAW CUT THE PERIMETER OF THE AREA TO BE REPAIRED TO A MINIMUM DEPTH OF 1/4" (6 MM). DO NOT CUT EXISTING STEEL REINFORCEMENT. WHERE REINFORCING STEEL WITH ACTIVE CORROSION IS ENCOUNTERED, ABRASIVE BLAST THE REINFORCING STEEL TO REMOVE RUST, SCALE AND CONTAMINANTS TO ACHIEVE A WHITE METAL FINISH. LF HALF OF THE DIAMETER OF THE REINFORCING STEEL IS EXPOSED, CHIP OUT BEHIND THE REINFORCING STEEL TO A 3/4" (19 MM) MINIMUM DEPTH. SPLICE NEW REINFORCING STEEL TO EXISTING STEEL WHERE CORROSION HAS DEPLETED THE CROSS-SECTION AREA BY 25%, AS DIRECTED BY THE ENGINEER.
2. CHIP UNSOUND CONCRETE TO A DEPTH NECESSARY TO REACH SOUND CONCRETE.
3. REMOVE AREAS THAT HAVE BEEN SATURATED WITH OIL OR GREASE. SIMPLE LIGHT SANDBLASTING WILL NOT PROVIDE A SUFFICIENT PROFILE FOR MOST REPAIRS. MINIMUM PROFILE SHOULD BE AT LEAST 1/4" (6 MM). EXPOSED AGGREGATE CONDITION IS PREFERRED. LIMIT THE SIZE OF CHIPPING HAMMERS TO 15 LBS TO REDUCE MICRO FRACTURES.
4. THOROUGHLY CLEAN THE ROUGHENED SURFACE AND EXPOSED REINFORCEMENT OF RUST, DIRT, LOOSE CHIPS AND DUST. HIGH PRESSURE WATER [200 PSI (1.4 MPA)] WORKS WELL. IT IS EXTREMELY IMPORTANT THAT THE PREPARED SUBSTRATE BE THOROUGHLY WETTED PRIOR TO APPLICATION OF EMACO S88-CA. AT THE TIME OF APPLICATION, THE SURFACE MUST BE IN A SATURATED, SURFACE DRY ((SSD)) CONDITION.

WALL RECONSTRUCTION GENERAL NOTES

NINTH STREET

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GENERAL NOTES