



d = THICKNESS OF CONCRETE

● = CONCRETE INJECTION LOCATION

GENERAL INTERCEPTION CRACK REPAIR INJECTION

1. CLEAN CRACK WITH WIRE BRUSH TO REMOVE DEBRIS AND PROVIDE CLEAN INTERFACE AT FACE OF CRACK.
2. DRILL HOLE INTO CONCRETE WALL AT 45° ANGLE, STARTING A DISTANCE OF 1/2 THE THICKNESS OF THE CONCRETE WALL FROM THE CRACK LOCATION. THE DRILL HOLE DEPTH SHOULD BE LONG ENOUGH TO REACH THE MIDDLE OF THE CONCRETE WALL, TO ENSURE INTERCEPTION OF THE CRACK. DIAMETER OF HOLE SHOULD CORRESPOND TO THE SIZE DIAMETER OF THE INJECTION PACKER BEING INSTALLED. HOLES SHOULD ALTERNATE ON BOTH SIDES OF THE CRACK, WITH THE HOLES VERTICALLY DISPLACED A DISTANCE OF 2/3 THE THICKNESS OF THE CONCRETE WALL.
3. AFTER DRILLING OF HOLES, CLEAR DUST FROM HOLE USING COMPRESSED AIR.
4. INSTALL CONCRETE INJECTION PACKER IN HOLE AND FLUSH WITH WATER AT LOW PRESSURE TO CLEAR DEBRIS FROM HOLE AND CRACK. IF CRACK HAS ORGANIC DEBRIS OR MINERAL DEPOSITS, FLUSH CRACK WITH A 5% TO 10% MURIATIC ACID AND WATER SOLUTION.
5. INSTALL GROUT OBSERVATION PORTS ON CRACK FACE HALFWAY BETWEEN VERTICAL INJECTION LOCATIONS USING A FAST SETTING EPOXY OVER CRACK FACE OF WALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEAL REMAINING CRACK WITH EPOXY.

6. PREPARE ACRYLATE GROUT WITH DESIRED REACTION TIME. CONDUCT CUP TEST BEFORE INSTALLATION TO VERIFY REACTION TIME.
7. BEGIN INJECTION OF ACRYLATE GROUT AT LOW PRESSURE INTO CONCRETE AT LOWEST INJECTION POINT. PRESSURE SHOULD NOT EXCEED 200 PSI. FOR DEGRADED CONCRETE, PRESSURE SHOULD NOT EXCEED 100 PSI. INJECT ACRYLATE GROUT UNTIL ACRYLATE GROUT BEGINS TO COME OUT OF OBSERVATION PORT INSTALLED ON CRACK FACE IMMEDIATELY ABOVE INJECTION LOCATION. PLUG OBSERVATION PORT.
8. MOVE TO NEXT INJECTION LOCATION AND REPEAT STEP 7 SYSTEMICALLY FROM THE LOWEST POINT, FINISHING AT THE HIGHEST POINT.
9. UNSCREW INJECTION PACKERS AND REMOVE OBSERVATION PORTS AFTER ALLOWING ACRYLATE GROUT TO CURE BASED ON DESIRED REACTION TIME. PATCH CONCRETE HOLES WITH NON-SHRINK GROUT.
10. GRIND AND SMOOTH EPOXY ON CRACK FACE IF DESIRED.

CONTRACTOR

ECO CONCRETE
LEVELLING

SHEET CONTENTS

PRELIMINARY INTERCEPTION
CRACK INJECTION

PROJECT

YORKTON BASEMENT
WATER INFILTRATION

REV.:

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BY:

WS

DATE:

3/1/25

SHEET NO:

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4466 CUSTER ST
MANITOWOC, WI 54220