

Challenge

Issue

Damaged expansion joints at snack foods manufacturer's warehouse were becoming a safety issue for forklifts. The worn joints caused forklifts to spill loads as well as damaging the wheels of the forklift.

Goals

Repair concrete around joints in short window of time and be able to cut new expansion joint and fill with flexible joint material to make a smooth transition. Materials must be able to handle the weight of the forklifts.

Root Cause

Heavy loads and movement at the expansion joint allowed for the wheels on the forklift to start breaking up concrete as the forklift moved from one slab to the other.



Damaged expansion joint.

Solution

Preparation

Key cuts were made 6" back on either side of the expansion joint. The loose concrete was removed by chipping hammers.

Application

Chesterton® EG-1 FC patch kits were utilized for ease of mixing for the contractor.

EG-1 FC patch kits were also used by the contractor to cut new expansion joints in just a few hours, which could not have been done with standard cure patch kits.



Damaged joint prepared for repairs with EG-1 FC patch kits.

Results

Timely and Improved Safety

Client was extremely happy with the results, and the project was completed within the time allocated for these repairs without a hitch.

Expansion joints are now safer to travel over as well as reducing damage to forklifts.

Customer has planned more time in the next 3 – 4 months to complete more EG-1 FC patch kits repairs.



Repairs allowed area to be back in service in <4 hours.