



SIKA AT WORK

SPIVEY DISPOSAL

TIPPING FLOOR

SLABS ON GROUND

BUILDING TRUST



SPIVEY DISPOSAL TIPPING FLOOR HAMPTON, VA



CONCRETE PRODUCER: Branscome Inc.
YEAR: 2017

THE PROBLEM

Tipping slabs are constantly being replaced due to their relatively short and incredibly challenging service lives. This part of waste and recycling facilities is where large trucks bring construction debris - including broken up concrete, asphalt, tree stumps, and branches (non residential trash), presenting a unique set of challenges.

Reducing shrinkage cracking, long term structural cracking, maintaining high strength levels and minimizing joints for equipment to catch on are all high priority design requirements.

SIKA SOLUTION

The typical slab design called for 10.5"+ thick concrete, traditionally reinforced with two layers of #5 rebar placed at 12" on center and more than 50 lbs/cyd of a steel concrete fiber to control cracking. After reviewing, the local concrete producer Branscome, Inc. and Sika representatives helped to create a value-engineered solution featuring 80 lbs/cyd of the SikaFiber® Force CS-1000 fiber and eliminating the need for traditional steel reinforcement.

The fiber, in conjunction with a 7000 psi, low-shrinkage mix design, allowed for a joint free design over the 65' x 100' area. Over time, this will reduce the wear and tear on equipment and personnel while helping to increase life span.

CONCRETE SPECIFICATION:

	Requirement
Slump	3"-5"
Air Content	±5%
Strength	7000 psi
Placement	Tailgate / Pump
Yardage	220

CONCRETE MIX DESIGN, LBS/CYD:

Total Cementitious	733 lbs/cyd
W/Cm	0.36
Sika® AEA-14	0.2 oz/cwt
Sika® ViscoCrete®-2100	4 oz/cwt
Sika® ViscoFlow®-2020	4 oz/cwt
Sika® Control SC	25 lbs/yd
Sika® Control-75	40 oz/cwt
SikaFiber® Force CS-1000	80 lbs/cyd

Our most current General Sales Conditions shall apply.
Please consult the most current local Product Data Sheet prior to any use.

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