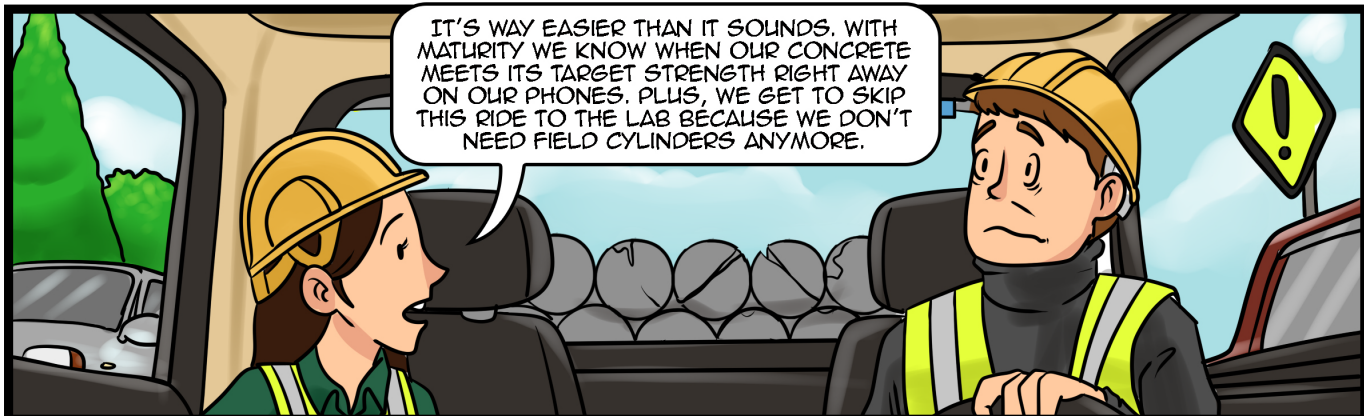
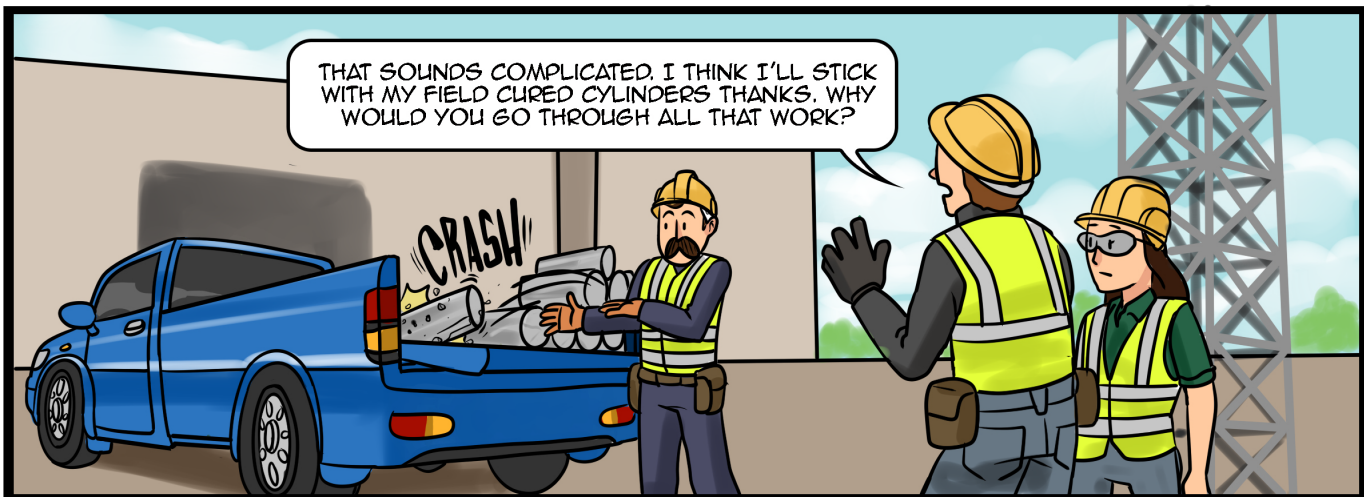
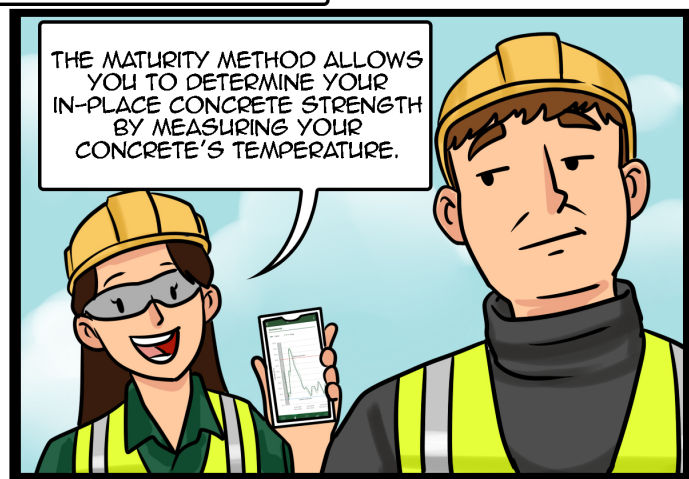
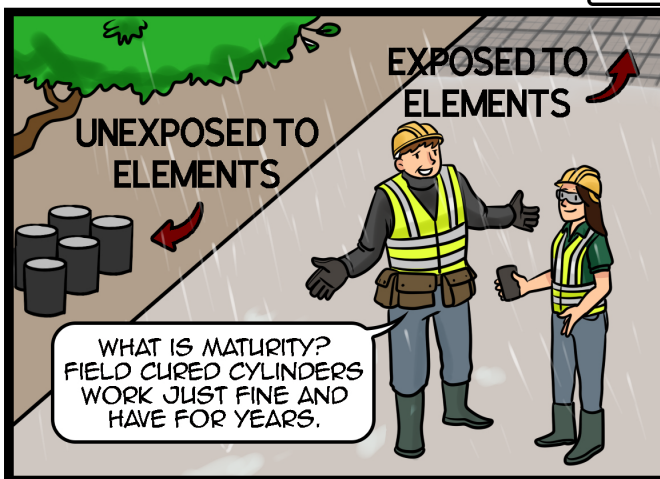
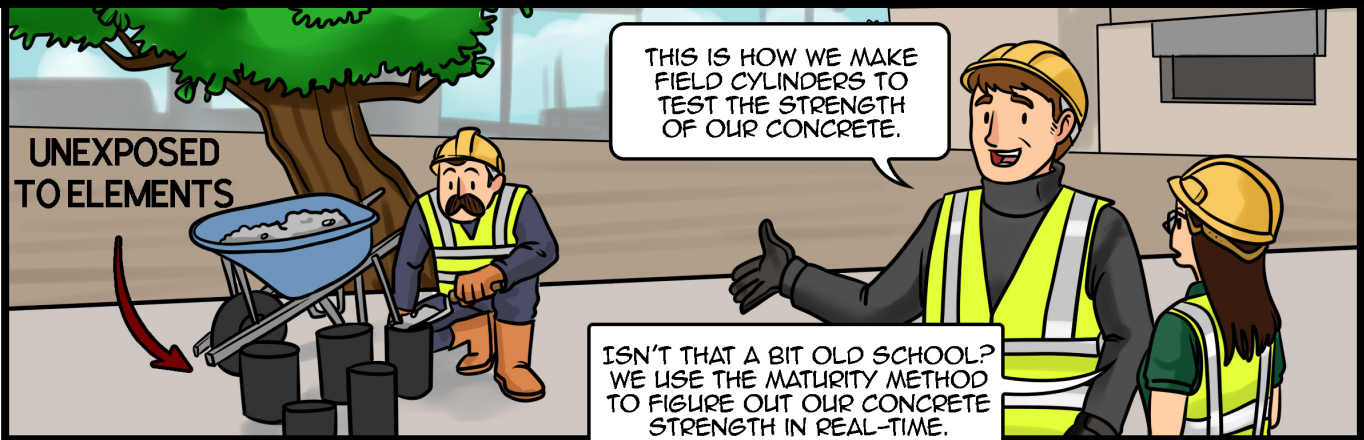


ADVENTURES
INTO **OUR MIGHTY
MATURITY METHOD**



12 HOURS LATER

HOW CAN MATURITY MEASURE THE STRENGTH OF MY CONCRETE WITHOUT DOING A BREAK TEST?

LIKE I SAID, BY TAKING REAL-TIME TEMPERATURE MEASUREMENTS, WE CAN CALCULATE WHAT THE STRENGTH IS USING THE MATURITY CALIBRATION SET UP IN AN APP ON OUR PHONES.

EXCUSE ME, BUT YOUR CONCRETE HASN'T REACHED ITS TARGET STRENGTH YET.

WHAT!? HOLD ON

YOUR MIX SHOULD HAVE HIT STRENGTH BY NOW! WHAT DID YOU GIVE US!?

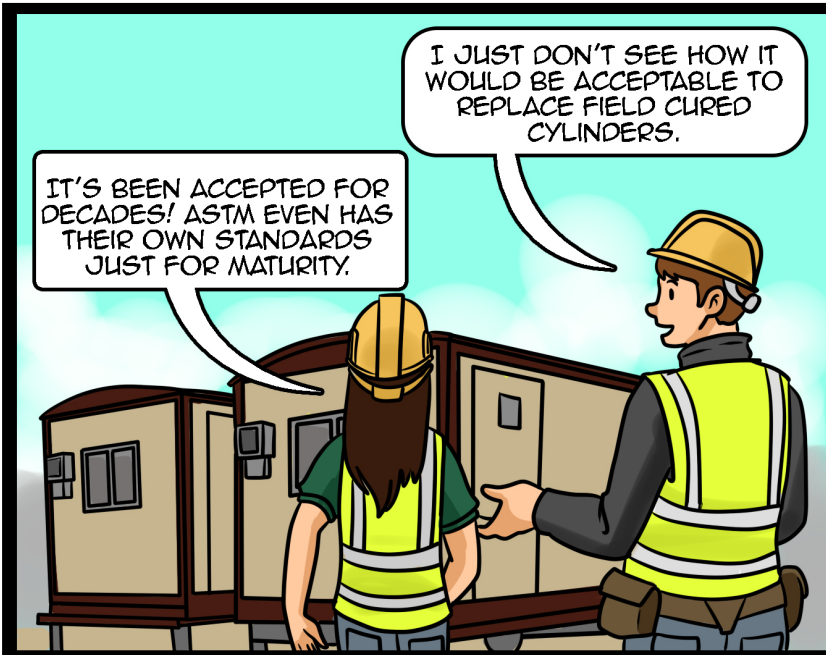
THE MIX WAS SPECIFICALLY ENGINEERED TO YOUR TARGET SPECS. HAS THE CONCRETE BEEN CURED PROPERLY AND KEPT WITHIN TEMPERATURE SPECIFICATIONS?

SO, HOW ARE MY LAB CURED CYLINDERS LOOKING FOR OUR PROJECT?

PERFECT. THE BREAK RESULTS MATCH THE STRENGTH MEASURED BY THE SENSOR. THE MATURITY CALIBRATION IS SPOT ON.

THERE CAN'T BE MANY BIG PROJECTS THAT ACTUALLY USE MATURITY, RIGHT?

ACTUALLY, THE CN TOWER IN TORONTO CANADA USED MATURITY EVEN BACK IN THE 70S. THEY WERE ABLE TO CLOSE OUT THE PROJECT MONTHS AHEAD OF TIME.

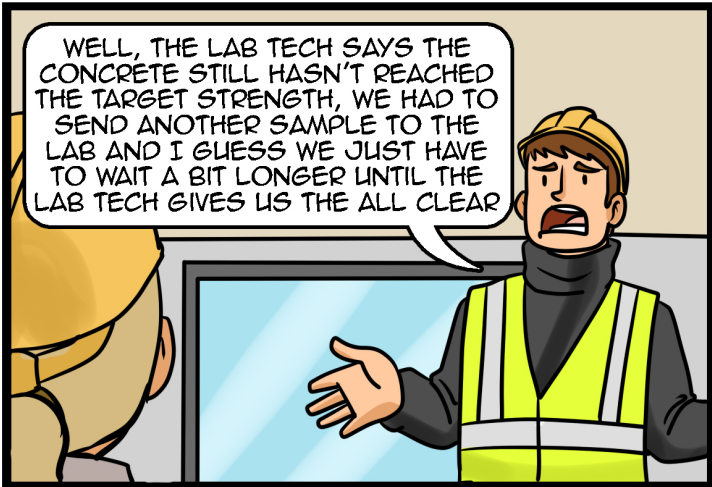


IT'S BEEN ACCEPTED FOR DECADES! ASTM EVEN HAS THEIR OWN STANDARDS JUST FOR MATURITY.

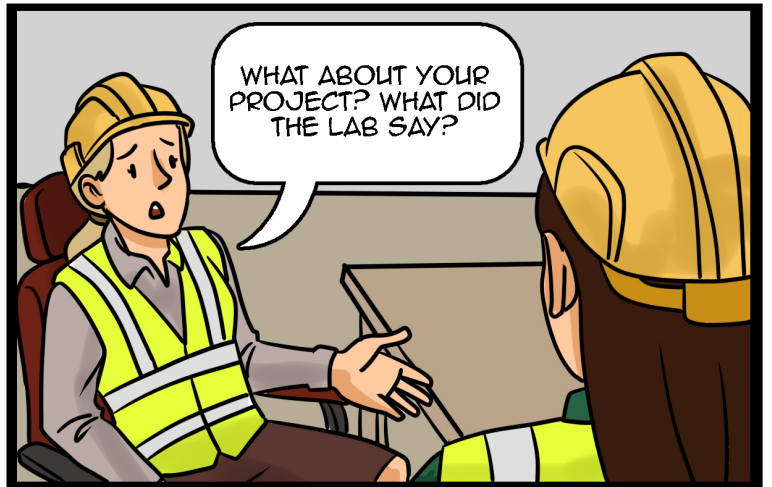
I JUST DON'T SEE HOW IT WOULD BE ACCEPTABLE TO REPLACE FIELD CURED CYLINDERS.



WELL, CAN WE START STRIPPING THE FORMWORK AND GET THIS PROJECT MOVING?



WELL, THE LAB TECH SAYS THE CONCRETE STILL HASN'T REACHED THE TARGET STRENGTH, WE HAD TO SEND ANOTHER SAMPLE TO THE LAB AND I GUESS WE JUST HAVE TO WAIT A BIT LONGER UNTIL THE LAB TECH GIVES US THE ALL CLEAR



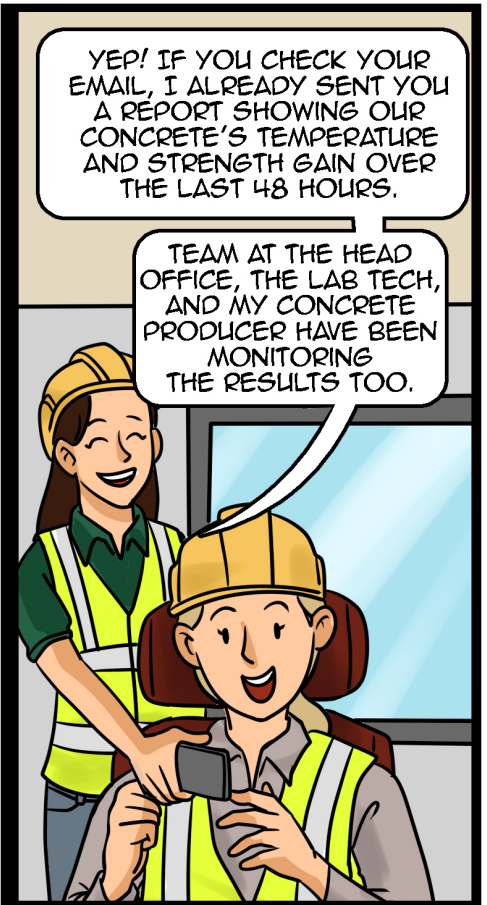
WHAT ABOUT YOUR PROJECT? WHAT DID THE LAB SAY?



THE LAB? OH, THE SMARTROCK SENSORS WE INSTALLED SHOWED THAT WE HIT STRENGTH EARLIER THIS MORNING. I ALREADY HAD THE GUYS STRIP FORMS.



REALLY?



YEP! IF YOU CHECK YOUR EMAIL, I ALREADY SENT YOU A REPORT SHOWING OUR CONCRETE'S TEMPERATURE AND STRENGTH GAIN OVER THE LAST 48 HOURS.

TEAM AT THE HEAD OFFICE, THE LAB TECH, AND MY CONCRETE PRODUCER HAVE BEEN MONITORING THE RESULTS TOO.

1,000 MILES AWAY

WOW THAT IS AWESOME.

YEAH, IT IS! WITH THE INFORMATION THE SENSORS ARE GIVING US, MY PRODUCER WAS ALSO ABLE TO ADJUST THE MIX TO MAKE SURE IT WAS NOT OVER PERFORMING, WHICH ALLOWED THEM TO REDUCE THE CEMENT CONTENT, AND REDUCE CO2 AND COST.

I THINK WE SHOULD MAKE THIS OUR GO-TO TESTING METHOD FROM NOW ON.

WAIT, SO YOUR GUYS ALREADY STARTED REMOVING FORMWORK THIS MORNING? YOU KNEW YOU HIT STRENGTH BEFORE WE EVEN WENT TO THE LAB?

WELL TECHNICALLY I KNEW LAST NIGHT THAT OUR POUR WOULD HIT TARGET STRENGTH THIS MORNING, THAT'S WHY I CALLED OUR SUB-CONTRACTORS TO COME IN A DAY EARLY.

YOU REALLY ONLY NEED TO INSTALL THE SMARTROCK WIRELESS CONCRETE SENSORS ONTO YOUR REBAR BEFORE YOU POUR. THEN THE APP ON YOUR PHONE DOES ALL THE MATH FOR YOU AND LETS ME CREATE THE REPORTS.

OKAY TELL ME ABOUT MATURITY CALIBRATION AGAIN FROM THE TOP? I PUT A FANCY THERMOMETER IN MY SLAB, RIGHT? AND THEN I HAVE TO DO A BUNCH OF MATH?

OKAY...BUT DOES THAT APP WORK ON MY FLIP PHONE?