



# The #1 Question to Ask Your Concrete Contractor

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**OHIO CONCRETE**

## FREE CONTRATOR WEBINAR: PLACING HIGH QUALITY CONCRETE

FEBRUARY 15-16, 2021 | 12:00 – 1:30 PM | CPD CREDITS: 1.5 / DAY

Join Ohio Concrete for a two-day highly informative webinar series for contractors who want to hear from various industry speakers on topics relating to:

- Placing high quality concrete for the betterment of the industry
- Increased value for your reputation
- Improved bottom line
- Attract & retain satisfied customers

One registration provides access for both days!!  
The presentations will be fast moving and cover the following:

**DAY ONE: MONDAY, FEB 15, 2021**  
12:00PM – 1:30PM

12:00 - 12:15 | ADA Compliance | Dan King, Perrin  
12:15 - 12:30 | Equipment Maintenance | Tim Esposito, Enzos Cleaning  
12:30 - 1:15 | Concrete Sealer Technology | Mark Chew, Pavix; Bill Maize, Premier  
P.I. Jim Render, JWR Consulting (15 min each)  
1:15 - 1:30 | The #1 Question to Ask Your Concrete Contractor | Bob Krulik, OC

**DAY TWO: TUESDAY, FEB 16, 2021**  
12:00PM – 1:30PM

12:00 - 12:30 | Common Concrete Problems | Michella Wilson, PCA  
12:30 - 1:00 | Proper Concrete Joint Placement | Jacob Hines, OC  
1:00 - 1:30 | Reacting to a "runaway" Concrete Placement | Phil Kresge, NRMCA

Click below for registration:  
[https://us02web.zoom.us/webinar/register/WN\\_9f5eyQOHTQC44nLMon9rAA](https://us02web.zoom.us/webinar/register/WN_9f5eyQOHTQC44nLMon9rAA)

After registering, you will receive a confirmation email containing information about joining the webinar.

**Questions:**  
NE Ohio - Bob Krulik 330-241-0434  
Central/ESE Ohio - Lisa Weaver-Moen 614 902 2955  
SW Ohio - Joe Vogel 513-675-5621  
NW Ohio - Wayne Moening 419-796-0019

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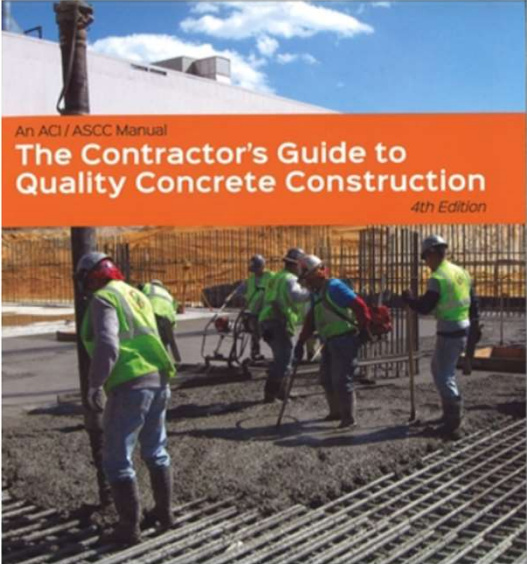
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## The Contractor's Guide to Quality Concrete Construction - 4th Edition



MNL-5(19)

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“how will you cure my concrete”

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An Educated Customer is our Best Customer  
Sy Syms

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## Our Shared Challenge How do we – as an industry:

- ◆ Maintain high standards when we have low barriers of entry
- ◆ Provide consistent and relevant information – trends, processes, products
- ◆ Make industry training available – continuing education, dialogue
- ◆ Inclusion – even those who don't want to listen
- ◆ Create demand for professional services
- ◆ Create opportunities for differentiation
- ◆ Obligation each the public on what the industry considers good quality concrete
- ◆ Self regulate!

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Are there any placements where you don't have to actively consider your curing options

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## Definition of Curing

**curing** — action taken to maintain moisture and temperature conditions in a freshly placed cementitious mixture to allow hydraulic cement hydration and (if applicable) pozzolanic reactions to occur so that potential properties of the mixture may develop.

Hydration stops when RH in the slab drops below 80% or the temperature falls below 14F

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# Why talk about Curing?

- ◆ Achieve full potential of concrete \$
- ◆ Strength, Permeability and .....
  - Improves Abrasion resistance
  - Volume stability = reduces shrinkage and cracking, less crazing,
  - Improves Freeze-thaw and scaling resistance etc.
  - Slows carbonation providing longer protection for reinforcing,
 All contributes to more Durable concrete!!
- ◆ Do we fall short?
  - ◆ Many don't cure at all! (Instances when curing not needed?)
  - ◆ Some instances where excessive protection provided? Temp Differential
  - ◆ Haphazard curing or poor adjustment to changed conditions
  - ◆ Anticipate curing 'conflicts' with use/exposure?
  - ◆ **Post placement-- is continued protection necessary?**

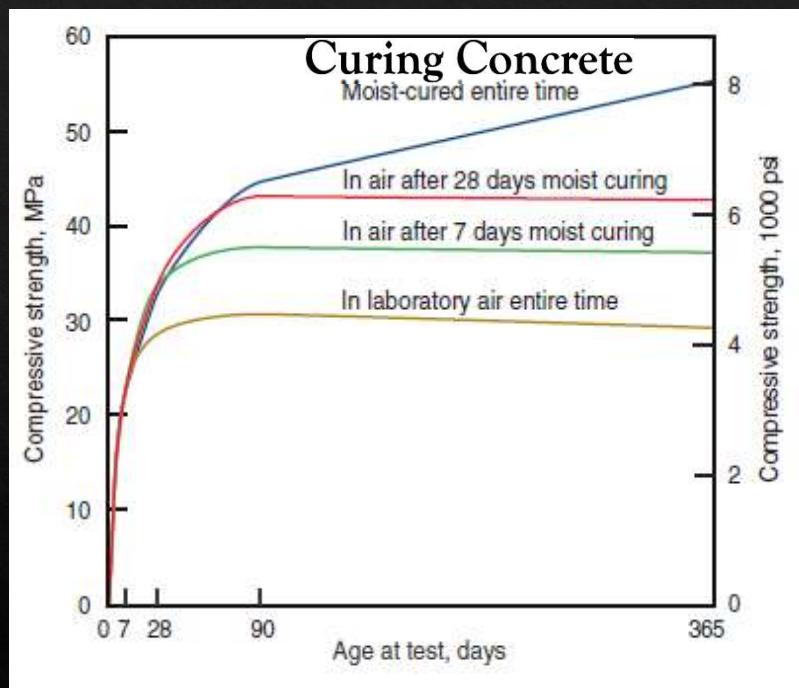
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## Compressive Strength of Concrete at Various Ages

The strength of concrete increases with age. The table shows the strength of concrete at different ages in comparison with the strength at 28 days after casting.

Age	Strength percent
1 day	16%
3 days	40%
7 days	65%
14 days	90%
28 days	99%

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Are there any placements where you don't have to actively consider your curing options



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## Membrane Curing Compounds Curing vs Cure'n Seal Products

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## ODOT

**451.11 Curing.** Immediately after the finishing operations have been completed and after all free water has dissipated, spray and seal all exposed concrete surfaces with a uniform application of curing membrane in such a manner as to provide a continuous uniform film (equal to a white sheet of typing paper), without marring the surface of the concrete. Apply a minimum of 1 gallon (1 L) of material for each 150 square feet (3.7 m<sup>2</sup>) of surface treated using an approved self-propelled mechanical sprayer. Provide an adequate shield to protect the fog spray from the wind. Before each use, thoroughly agitate the curing material.

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## Cure 'n Seal

- ◆ Hybrid Product
- ◆ Re-application 28 days later with same product – avoids incompatibility issues

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## In Summary

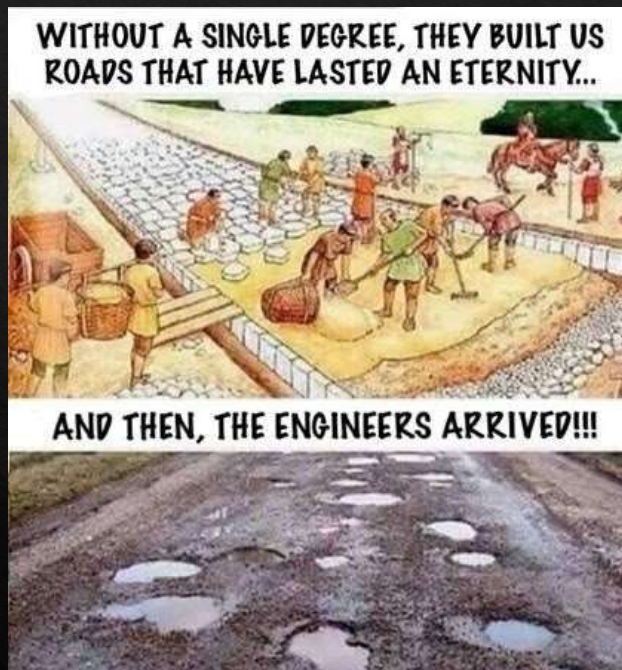
Looking to publish articles on the “#1 Reason” – be ready

Understand curing is for minimum seven days

Traditional Membrane Curing Compounds vs Cure ‘n Seals

<https://www.ohioconcrete.org/2020-fall-concrete-webinar-series/>

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