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layout: post

cover: '/assets/images/Concrete/CHeader.jpg'

caption: 'Giovanni Battista Piranesi, 1756, *Das Pantheon*'

title: "Cementing an Empire"

date: 2018-10-08 16:00:00

tags:

- rome

- archaeology

- concrete

- vitruvius

category:

- post

author: ben

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{% include lightbox.html

caption="\*Figure 1.\* The Porticus Aemilia in the present day. [Gobbler](https://commons.wikimedia.org/wiki/File:Roma_Testaccio_Ruderi_Porticus_Aemilia.jpg) / wikivoyage shared / CC BY-SA 3.0”

image="Concrete/TMFigure1.jpg"

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{% include lightbox.html

caption="\*Figure 2.\* Pozzolan ash deposits from Southern California, note that Pozzolan simply refers to the composition of the ash. [Dr. Vladmir Ronin](https://commons.wikimedia.org/wiki/File:EMC_Cement_Natural_Pozzolan_Deposits_(Southern_California).jpg) / CC BY-SA 3.0”

image="Concrete/CFigure2.jpg"

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caption="\*Figure 3.\* The *Tabularium* as seen from the outside. Photo by Professor Ray Laurence”

image="Concrete/CFigure3.jpg"

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{% include lightbox.html

caption="\*Figure 4.\* The Pantheon. [Xeo](https://commons.wikimedia.org/wiki/File:Pantheon_aussen.jpg) / Wikimedia Commons / Public Domain”

image="Concrete/CFigure4.jpg"

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{% include lightbox.html

caption="\*Figure 5.\* Außenans, 1900. Pompeiustheater”

image="Concrete/CFigure5.jpg"

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{% include lightbox.html

caption="\*Figure 6a.\* Obverse of a sestertius, featuring the bust of Nero. RIC I 440, [Museum of Ancient Cultures](https://www.mq.edu.au/about/campus-services-and-facilities/museums-and-collections/museum-of-ancient-cultures) / [ACANS collection](https://www.mq.edu.au/research/research-centres-groups-and-facilities/resilient-societies/centres/australian-centre-for-ancient-numismatic-studies)”

image="Concrete/CFigure6a.tif"

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{% include lightbox.html

caption="\*Figure 6b.\* Reverse of same sestertius, featuring the Portus at Ostia. RIC I 440, [Museum of Ancient Cultures](https://www.mq.edu.au/about/campus-services-and-facilities/museums-and-collections/museum-of-ancient-cultures) / [ACANS collection](https://www.mq.edu.au/research/research-centres-groups-and-facilities/resilient-societies/centres/australian-centre-for-ancient-numismatic-studies)”

image="Concrete/CFigure6b.tif"

width="709"

height="727" %}

{% include lightbox.html

caption="\*Figure 7.\* Light shining through the Oculus of the dome of the Pantheon. [o2ma](https://commons.wikimedia.org/wiki/File:Roma-pantheondentro.jpg) / CC BY-SA 2.0”

image="Concrete/CFigure7.png"

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