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Shotcrete: Mix Design,  
Specifications, and  
Placement. by Marc Jolin  
and Denis Beaupré . T.

The purpose of this article is to examine the use of modern wet-mix shotcrete in underground environments. A critical review is provided of aspects such as mixture design, specifications, and placement. More

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## Shotcrete Mix Design ...

Wet Mix Process for  
Shotcrete The wet mix  
process involves the  
mixing of all ingredients  
to form mortar or  
concrete with required  
water content. Here, the  
mix to be shotcreted is  
prepared before placing it  
in the shotcreting

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equipment. The delivery equipment used can be either a positive displacement type or a pneumatic -feed.

Dry Mix Process and  
Wet Mix Process for  
Shotcrete

Wet-mix shotcrete (WMS) has been widely accepted for diverse construction and repair applications, including

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underground  
construction, tunnel  
lining, slope stabilization,  
and structural  
renovation...

Understanding Wet-Mix  
Shotcrete: Mix Design ...  
shotcrete mix design is  
divided into wet mix and  
gunitite to dry mix. This  
article focuses on the  
target mix design of  
shotcrete. The bulk

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density of wet sprayed concrete can be 2200-2300 kg/m<sup>3</sup>, The weight ratio of cement to sandstone is preferably 1.0: 3.5 to 1.0: 4.0, the water-cement ratio is preferably 0.42 to 0.50, and the sand ratio is preferably 50% to 60%.

Understanding Wet Mix  
Shotcrete Mix Design  
WET-MIX

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**SHOTCRETE** In the wet-mix process, all ingredients are first mixed to produce mortar or concrete. The mortar or concrete is then placed into delivery equipment. The material is forced through a delivery hose to the nozzle where compressed air is injected to increase velocity.

Dry- and Wet-Mix

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The sand pumped in the dry-mix process should be damp but its water content should be kept reasonably uniform. If it is allowed to vary widely,



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the nozzle man will have a difficult time maintaining acceptable slump and uniformity of the shotcrete in place.

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Cement dosage. The amount of cement used to control the amount of cement should be controlled at 400 ~ 450kg / m<sup>3</sup>. If... Gray to bone ratio. The ratio of cement to aggregate should be different according to the construction process. When dry... Sand ratio. The sand rate should ...

Typical shotcrete mix

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design | Silica fume  
supplier in ...

Wet Mix Shotcrete Air-  
entrainment and  
chemical admixtures may  
only be used in wet mix  
concrete.

Construction  
Specification - Shotcrete  
Shotcrete is both a  
material and a method.  
The material is concrete,  
mortar or grout. The

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method is the application of this material by pneumatic pressure through a specially adapted hose. There are two basic types of shotcrete: in one, the materials are combined in a central mixer and then transported through a hose, out the nozzle and into place; in the other, the dry ingredients are combined,

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transported through a hose and mixed with water at the nozzle.

## Mix Design Hints for Shotcrete - Concrete Construction

Unlike the dry-mix process, the wet concrete mix greets air at the nozzle before shooting. Because the wet-mix process relies on a ready-mix plant, the variables

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are less, well, variable.

"Most of the batching is controlled at the plant," says Drakeley, "So you ask for a certain mix and you should be relatively sure, as long as you know your ready-mix company, that that's what you are going to get." The importance of the velocity of the shot cannot be overstated.

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Understanding the  
Shotcrete Pool  
Application - AQUA  
Magazine

the nozzle tip shape on  
the spray pattern in wet-  
mix shotcrete.

**METHODOLOGY** This  
study took place in a  
controlled laboratory  
environment with  
conventional industrial  
shotcrete equipment. A  
shotcrete hydraulic



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cylinder pump, an Allentown Powercreter 10, was used to pump a modern shotcrete mixture designed for wet-mix placement. To lubricate

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ground environments A  
critical review is provided  
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environments. A critical

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review is provided of aspects such as mixture design, specifications, and placement. More specifically, the intent of this article is to identify the limits of the wet-mix shotcrete process, examine actual mix designs, discuss the various ...

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books understanding wet mix shotcrete mix design in addition to it is not directly done, you could say yes even more almost this life, on the order of the world.

## Understanding Wet Mix Shotcrete Mix Design

The two basic methods for applying shotcrete are the dry-mix process and the wet-mix process. The

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Shotcrete in

underground works can be applied with different methods and equipment: wet-mix spraying or dry-mix spraying, manual or mechanized equipment.

The wet-mix already includes all ingredients before pumping, including water, whereas

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it is added to the dry-mix  
in the nozzle just before  
spraying.

Advantages of  
mechanized wet-mix  
shotcreting in  
comparison ...

Shotcrete, gunite (/  
n a t /), or sprayed  
concrete is concrete or  
mortar conveyed  
through a hose and  
pneumatically projected

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at high velocity onto a surface, as a construction technique, first used in 1914.: 7 It is typically

reinforced by conventional steel rods, steel mesh, or fibers.

Shotcrete is usually an all-inclusive term for both the wet-mix and dry-mix versions.



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