

California Construction and **Industrial Materials Association**



aggregate uses



Sand, Gravel, and Crushed Stone ("Aggregates") are **Essential for Making** Cement, Concrete, and Asphalt, the Basic **Building Blocks of Our Buildings and Roads**



Twice as Much Concrete is Used Worldwide than all **Other Building** Materials Combined!1

What is the Difference Between Cement, Concrete, and Asphalt?



A fine powder made by combining limestone and other minerals, which then becomes the "glue" in making concrete.

Concrete:

Made by combining cement, water, sand and gravel.

Asphalt:

Asphalt pavement is approximately 95% aggregates, and 5% asphalt cement as a binder. The binder is a product of oil refining that acts to "glue" the aggregates together.

Aggregates are Used in Thousands of Everyday Applications:

Infrastructure

Highways

Bridges Roads

Streets

Homes

Schools Hospitals

Shopping Centers

Airports

Railroads

Rapid Transit

Ports

Tunnels

Dams

Commercial and **Government Buildings**

Sewer Systems

Water Purification and Sewage Treatment Playing Fields

Golf Courses

Sidewalks

Environmental Protection

Soil erosion control programs along rivers and shorelines

Reduction of sulfur dioxide emissions generated by electric power plants

Beach replenishment

Water storage

Spawning beds

Flood control

Groundwater replenishment

Recycling

Agriculture

Agricultural Crops

Reminalization of soils in agriculture and forests for healthy soil and growth

Homes and Buildings

Much of our homes and buildings are made up of aggregates or of items that include aggregates:

Carpet Backing

Fireplace

Bricks

Foundation

Toilets. Sinks and Bathtubs

Windows

Roofing Tiles and Shingles

Plaster

Wallboard

Glass

Marble

Sandstone Granite

Insulation

Concrete Pipes **Paving Stones**



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¹ Cement Association of Canada