Shotcrete/Sprayed Concrete Market by Process, by Application, by System and by Region - Global Trends and Forecasts to 2020

Description: "Shotcrete/Sprayed Concrete Market by Process (Wet - Mix & Dry - Mix), by Application (Underground Construction, Water Retaining Structures, Protective Coatings, Repair Works & Others), by System (Robotic & Manual) and by Region - Global Trends and Forecasts to 2020"

Shotcrete is a method of applying concrete that is generally self-supporting without the need for form work. Shotcrete is conveyed through a hose and pneumatically projected at high velocity onto a surface, as a construction technique. The key applications of shotcrete are tunnel linings, mining operations, rehabilitation works, refractory systems, and others. The demand for shotcrete is influenced by its versatile and innovative characteristics as it can be projected onto any shape of surface along with vertical and overhead areas.

Europe is the largest market for shotcrete, accounting for a significant share of around 37% of the global market by volume in 2014. Asia-Pacific is the fastest-growing market for shotcrete, in terms of volume. The increasing demand for underground transportation is to avoid traffic and save time. The innovations in materials, machinery & processing enabling shotcrete to compete in higher-value applications, such as tunneling, mining, retaining walls, and dams in order to fulfil the growing demand from highly populated regions like Europe and Asia.

Among the various applications, the underground construction segment dominated the shotcrete concrete market in 2014 due to the use of shotcrete in larger volumes for tunnel & mining projects and also for slope stabilization activities. Water retaining structures is the second-largest application segment and is expected to grow significantly between 2015 and 2020. Other applications of shotcrete include new construction and free formed structures.

Among processes, wet-mix concrete for shotcrete process segment dominated the market with nearly 80% market share by volume in 2014 and is expected to grow significantly from 2015 to 2020.

The shotcrete market is also segmented on the basis of system of spraying namely, robotic spraying system and manual spraying system. Robotic system accounts for the largest share of the market as it is mainly used to spray wet mix shotcrete, which is very heavy in weight and cannot be sprayed manually.

This study aims to estimate the market size of shotcrete process in 2015 in terms of volume and value and project its demand by 2020. This market research study provides a detailed qualitative and quantitative analysis of the global shotcrete/sprayed concrete market. It provides a comprehensive review of the key drivers, restraints, opportunities, and burning issues in the market. The market is segmented and projected by region into Europe, North America, Asia-Pacific, and RoW, which are further segmented by key countries in each region.

We have used different secondary sources, such as company websites, encyclopedia, directories, and databases to identify and collect information that are useful for this extensive commercial study of the global shotcrete/sprayed concrete market. The primary sources, which include experts from related industries, have been interviewed to verify and collect critical information as well as to assess the future prospects of the market.

The report also includes profiles of various market players, such as BASF SE, Sika AG, Heidelberg Cement AG, The Euclid Chemical Company, and CEMEX S.A.B. De C.V., among others.

Scope of the Report:

This research report categorizes the market for shotcrete/sprayed concrete on the basis of process, application, system, and region and provides forecast of market growth and analysis of trends in each of the submarkets. 

On the Basis of Process:
The shotcrete/sprayed concrete market is segmented on the basis of process into dry-mix concrete process and wet-mix concrete process. Each process is further described in detail in the report with value and volume forecasts till 2020.

On the Basis of Application:

The shotcrete/sprayed concrete market is segmented on the basis of applications that include underground construction, water retaining structures, protective coatings, repair works and others. Each application is further described in detail in the report with value and volume forecasts till 2020.

On the Basis of System:

The shotcrete/sprayed concrete market is segmented on the basis of system into robotic system and manual system. Each system type is further described in detail in the report with value and volume forecasts till 2020.

On the Basis of Region:

The shotcrete/sprayed concrete market is segmented by regions into Europe, North America, Asia-Pacific, and RoW. They are further segmented by key countries in each region that include Germany, Italy, Norway, Sweden, Austria, Switzerland, U.K., U.S., Canada, Mexico, China, Japan, Australia, India, U.A.E, Peru, Chile, Qatar, Columbia, and Brazil.

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