

Standard concrete is made with cement and heavy aggregates - typically crushed rock. Litecrete uses pumice as an aggregate, which dramatically reduces the weight of the concrete. Pumice is a volcanic rock, formed by the effervescence of gases and rapid cooling of molten granite, during an eruption. The air cells in the pumice provide superb insulating properties, convenient lightness, and ease of use. The combination of pumice and cement, together with steel reinforcing systems and polypropylene fibre reinforcement, gives Litecrete its lightweight and durability.



However, pumice concrete is not a new phenomenon. Since the early days of the Roman Empire lightweight concrete-type construction methods were used. Both the Colosseum and the Pantheon were partly built using aggregates of crushed lava, crushed brick and pumice. And they are still standing today . . . more than 2000 years old.



Colosseum



Pantheon