

الخرسانة الرغوية FOAM CONCRETE

أ.م.د. قاسم محمد شاكر

كلية الهندسة / القسم المدني

١- تعريف الخرسانة الرغوية FOAM CONCRETE

الخرسانة الرغوية هي نوع من الخرسانة المسامية خفيفة الوزن كثافتها اقل من كثافة الخرسانة العادية، كثافتها تتراوح بين ٢٠٠ الى ١٨٠٠ كجم/م^٣ وتتكون من خليط من أسمنت بورتلاند مع نسبة محددة من مسحوق الرماد المتطاير ، أو حجار الحجر الجيري أحيانا والرمل. وبعض المواد الكيماوية التي تخلط في خلطة خاصة وتضخ حيث تتكون فقاعات هوائية داخل الخلطة ، مما يساعد على زيادة حجمها وخفة وزنها ، هذا المزيج يصبح رغوة جديدة أشبه ما يكون للمعجينة و التي بها فراغات كثيرة. (non-autoclaved aerated concrete)(NAAC)

تعتبر الخرسانة الرغوية هشّة وضعيفة ولذلك تحتاج إلى العناية الكبيرة للتنفيذ و كذلك عند تركيب العزل حيث يمكن ان تؤدي الأعمال فوقها إلى بعض التكسر والتصدعات في سطحها.

تعتمد نوعية وخصائص الخرسانة الرغوية على عوامل متعددة منها نوع وخواص الركام المستخدم وتدرجه، نسبة الماء الي الاسمنت ،درجة النمك ، خاصية التشغيل والقوام ، نسبة الاسمنت الي الركام. تعتمد مقاومة الكسر للخرسانة الرغوية على مجموعه من العوامل اهمها الكثافة ونسبة الماء الي الاسمنت ونسبة الركام الي الاسمنت. يمكن زيادة مقاومة الكسر في الخرسانة الرغوية الي الضعف عن طريق إنضاجها بالبخار.

ويمكن إنتاج الخرسانة الرغوية بطرق متعددة ومن هذه الطرق هو استخدام المواد المولدة للرغوة او ذات الهواء المقصود (او الحابسة للهواء) او من خلال إحداث تفاعلات كيميائية تنتج غازات تدخل بين مكونات الخلطة وتسمى أحيانا الخرسانة المسامية، الخرسانة الغلزية أو الخرسانة الخلوية

٢- نبذة تاريخية :

ظهرت الخرسانة الرغوية لأول مرة في السويد كبراءة اختراع عام ١٩٢٣ للاستخدام كمادة عازلة. وقد بقي استخدامها محدودا في هذا المجال الى عام ١٩٥٤ عندما قام Valore بأجراء مراجعة شاملة بهدف توسيع مجالات استخدامها واستمرت البحوث والدراسات الى الوقت الحاضر

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