SOUND INSULATION PLASTER FOR WALLS AS A HIGH-QUALITY AND EFFECTIVE METHOD OF NOISE INSULATION IN AN APARTMENT

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Currently, special attention is paid to the fight against noise impacts. One of the ways to keep calm in an apartment and protect yourself from stressful situations can be attributed to the fact that in an apartment or in any residential area, you can actively use sound-proof plaster.

These plaster compositions differ from the usual ones by sound-absorbing fillers. The characteristic features include a monolithic sound insulation coating without joints; the coating structure must be dense without various flakes and cracks (even micro), which are sound conductors; mandatory removal of metal beacons after plastering (homolichennye beacons become sound conductors); appearance as normal plasters; the ability to tinting at will; maintainability; spraying is environmentally safe; painting, especially with dense enamels, significantly reduces the sound-absorbing properties; the top layer is not rubbed (covered with a cloth or panels). As an example, we give the technical characteristics of perlite compositions: Composition (kg) Volume weight (kg / m3) coefficient of thermal conductivity (kcal/(m*h*deg) at 25°C compressive strength (kg/cm2) Composition 1: Gypsum -500, Perlite -250, Water - 540. 600 0.12 15 Composition 2: Gypsum-375, Perlite-250, Water-415. 700 0.15 25. The effectiveness of sound-proof plaster composition can be increased by applying a layer of it on top of a pumice-concrete base or chipboard (on a porous base). [4] Composition most often, for the basis of sound-proof plaster solutions, the following binders are used: gypsum; Portland cement; slag - Portland cement; lime; caustic magnesite (in powder form-magnesian cement). Their mixtures can also be used in compositions. In gypsum compositions to slow down setting, add a lime-glue moderator (1 % of the weight). Components of sound-absorbing plaster sound-absorbing solutions are distinguished by a volume mass in the range of 600-1200 kg/cubic meter due to a light porous filler-porous granules: pumice (or pumice sand); perlite; expanded clay; slag; foamed glass. [2] The grain size is up to 3-5 mm, as a rule, one fraction is used in the composition. The most famous solutions have the following composition of sound-proof plaster: acoustic APC: 1: 3-4:1(cement, pumice sand, water); cement with pumice or vermiculite (granule size up to 3 mm) - 1 h. cement, 4 h. filler (dry ingredients mixed and diluted with water, cement based plaster increases the adhesion and shumopogloschienie properties, applied a layer of 25 mm, while
retaining surface); cement with slag was 1:4 (particle size 3-5 mm; superimposed over cement plaster base); plaster with sifted slag with a diameter of 2 mm (shut gypsum slag milk, the solution is applied without troweling on primed substrate, the coating bogoboyaznennost); acoustolite - magnesite with pumice of 1 - 2 mm in diameter (caustic magnesite (4.8 l) with particles up to 0.25 mm is mixed with pumice (19.2 l), hydrochloric acid is introduced into the mixture (strength 12o, volume 6.4 l), mixed until evenly moistened, applied even to the untreated base); cement with asbestos crumbs and sand of 5 – 10 mm thick (1:2:2 within 1:6:1, applied mechanically to the preparatory cement-sand 1:2 layer 5 - 6 mm). [5] In ready-made sound insulation compositions available on sale, there are other components. Manufacturers sometimes add aluminum powder, as a result of which when the solution dries, pores are formed from the escaping gas, which increases the sound-absorbing properties. Pros and cons Relative to other acoustic materials, sound-absorbing plaster has the following advantages: ease and speed of application; seamless; undemanding to the evenness of the base; versatility (any, even complex forms are created); environmental friendliness. [1]

References:

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ДОСЛІДЖЕННЯ ТА РОЗРОБКА СИСТЕМИ РОЗПІЗНАВАННЯ ТЕКСТУ НА ЗОБРАЖЕННІ ЗА ДОПОМОГОЮ ЗГОРТКОВОЇ НЕЙРОННОЇ МЕРЕЖІ

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Вступ. Сучасні методи розпізнавання символів тексту дозволяють вирішувати ряд наукових та прикладних задач, таких як відновлення документів, публікації тексту на веб-сторінці, оцифровування книг, автоматизації обліку в бізнесі, визначення номеру банківської карти з її зображення і так далі. Оскільки ряд характеристик тестових даних може змінюватися, методи, які використовуються в програмних системах, повинні