Construction Thinking of Concrete Pouring Technology in Building Construction

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Abstract: The rapid development of the construction field in the new era has had a positive impact on the effective construction of construction projects. In practice, in order to increase the technical content of construction, optimize its structural performance, and extend the service life of buildings, it is necessary to consider the application of concrete pouring technology, effectively carry out research work in this area, thereby reducing the incidence of structural problems in construction. Based on this, this paper will systematically expound the application of concrete pouring technology in building construction.

1. Introduction
In the construction process, if the application of concrete pouring technology can be considered, the technical advantages in the implementation of the corresponding construction plan can be increased, the construction work can be carried out more efficiently, and the structural performance can be optimized while maintaining the good pouring condition of the building concrete. Therefore, based on the development of construction work, in order to make the effect of concrete in its application more significant and improve the efficiency of pouring construction, it is necessary to consider the corresponding technical application, and the construction target under the support of concrete pouring technology can be smoothly realized. Increase construction efficiency in this area. On this basis, it can enrich the practical experience in building construction and enhance the potential application value of concrete pouring technology.

2. Discussion on Application Value of Concrete Pouring Technology in Building Construction
In the construction work, in order to realize the scientific application of concrete pouring technology, it is necessary to understand its application value. The concrete performances are as follows: (1) Pay attention to the application of concrete pouring technology in building construction, which is conducive to improving the quality of pouring, maintaining the good construction condition of the building project, and realizing the efficient use of concrete structures; (2) Paying attention to concrete pouring technology. The application in building construction can enhance the structural construction effect, effectively cope with the problems that may occur in concrete pouring, and complete the construction plan on schedule; (3) Pay attention to the application of concrete pouring technology in building construction, which is beneficial to reduce the risk of construction concrete construction. To meet the reliability requirements of its pouring quality, and to maintain good functional characteristics of concrete during construction, and comprehensively improve the construction level of modern buildings [1].
3. Application Analysis of Concrete Pouring Technology in Building Construction
In order to improve the level of concrete pouring during construction, it is necessary to consider the corresponding technical application and clarify the application points of concrete pouring technology in construction. Specifically includes the following aspects:

3.1. Application of Foundation Pouring Construction
In the process of implementing the construction foundation pouring construction plan, in order to ensure the good construction effect in this aspect, the application of concrete pouring technology needs to be considered. The specific performances are as follows: (1) In combination with the functional characteristics of concrete and the requirements of building construction, layered pouring can be used in the foundation pouring construction to complete the corresponding construction plan, meet the requirements of large-volume construction, and respond during construction. Whether the compactness between adjacent layers is considered well, avoiding the occurrence of gaps, and ensuring the effectiveness of construction work in the construction of foundations; (2) Construction foundation pouring based on concrete pouring technology should pass the foundation Reasonable setting of the pouring belt, handling the basic pouring construction problem that is difficult to complete in one-time pouring, and need to control the corresponding pouring operation process to avoid adversely affecting the pouring effect in this aspect, and finally reach the construction engineering in practice. The construction level of foundation pouring is gradually improved, and the performance of infrastructure structure is optimized.

3.2. Application of Plining Wall Pouring Construction
The pouring of the shear wall in the construction can be carried out by the introduction and application of the concrete pouring technology, and the construction of the long-shaped pipeline is used to ensure the good effect of the pouring wall pouring. The concrete manifestations are as follows: (1) Firstly, a layer of concrete with a thickness of about 5 cm should be uniformly poured on the wall of the wall, and the whole wall should be poured on the basis of the foundation to provide support for the formation of the shear wall in the construction, and complete it. Pouring construction work in practice; (2) Construction shear wall construction under the support of concrete pouring technology, and ensuring good continuity during construction, the middle cannot be interrupted at random, at the same time, the interface of the shear wall pouring construction The vibrating strength should be large enough to promote the true combination of the compactness of the concrete and its interface, so as to improve the pouring quality of the shear wall; (3) the location of the hole in the construction of the shear wall and the height of the concrete around the opening should be At the same level, it is necessary to complete the pouring construction work of the exterior wall columns and walls at the same time to avoid affecting the pouring construction effect of the shear wall. During this period, it is also necessary to control the thickness of the protective layer of the steel bar, and fully consider whether the shear wall construction work has achieved the expected effect, and promote the shear wall after the completion of the pouring operation has a good function in the construction engineering application, and improve the construction efficiency of the shear wall pouring construction is refined while the construction content is refined, and the application range of concrete pouring technology is gradually expanded [2]. The concrete pouring site in a building construction is shown in Figure 1.
3.3. Position and Application of Beam and Slab Pouring Construction

(1) Application of location pouring construction. The steel bars play a supporting role in the whole building. When carrying out concrete pouring work during construction, pay close attention to the specific position of the steel bar and control it to ensure its correctness. When the position of the steel bar in the pouring construction is deviated, timely correction shall be carried out to avoid affecting the stability of the building structure and give full play to the practical role of the steel bar in optimizing the performance of the building structure. At the same time, the construction enterprise should clear the concrete location before the concrete pouring construction work, give the pouring quality reliability and effective protection, and enhance the application effect of steel reinforcement in the construction of the building structure.

(2) Application of beam and slab pouring construction. The difference between the beam and the slab in the construction will make the concrete pouring scheme different. Among them, in the rib-shaped floor slab pouring, the grouting method can be adopted, and the beam is layered and poured according to the stepped distribution. When the pouring position gradually rises to reach the slab, the slab can be poured. At the same time, in the construction of the beam and slab in the construction, it is necessary to comprehensively consider the pouring direction and the virtual slab thickness, and carry out the concrete beam pouring construction work supported by the concrete pouring technology to meet the performance optimization requirements in the application. In addition, the beam or plate connected to the wall and column must be placed later than the wall or pillar concrete to avoid affecting the pouring effect of the beam and slab, realize the scientific application of concrete pouring technology, and further promote the construction plan. [3].

4. Relevant Measures for Improving The Application Level of Concrete Pouring Technology in Building Construction

In order to gradually improve the application level of concrete pouring technology in building construction, it is necessary to consider the relevant measures. Specifically includes the following aspects:

4.1. Control the Application Process of Concrete Pouring Technology

On the basis of understanding the functional characteristics of concrete pouring technology, in order to make its application effect in building construction more significant, and to improve the application level of such technology, it is necessary for the construction enterprise to control the application process of concrete pouring technology in building construction, and carry out in time. Corresponding control work, quickly deal with the factors affecting the application effect of concrete pouring technology, meet the requirements of structural improvement in building construction, and finally achieve the purpose of improving the application level of concrete pouring technology. At the same time, in the application of concrete pouring technology, construction enterprises and personnel should
strengthen their control awareness in the application process, and evaluate the control effect of such technology application, so that the application advantages of concrete pouring technology can be fully exerted. Meet the requirements of the main level of improvement in its application level.

4.2. Increase Research Efforts in The Application of Concrete Pouring Technology
In combination with the current situation changes, in order to improve the application level of concrete pouring technology in building construction, it is necessary to continuously increase the research intensity of concrete pouring technology and obtain application through the integration and utilization of rich practical experience and professional theoretical knowledge. The research results of good value provide support for the efficient construction of the construction project, and promote the concrete pouring technology to maintain a good effect in its construction. When the research on the application of concrete pouring technology in construction is gradually increased, the scientific application of such technology can be realized, and the construction plan of the building structure can be implemented to provide technical support for the improvement of the overall construction quality of modern buildings [4].

4.3. Other Measures
Based on the application of concrete pouring technology in building construction, in the process of upgrading the application level of such technology, it is also necessary to pay attention to the combination of these measures: (1) The application value and function of the construction enterprises and personnel in the practice of concrete pouring technology Characteristics, etc. have more understanding, improve the cognitive level of the technology, promote the effect of concrete pouring technology in building construction, and effectively complete the construction work, and provide necessary support for the application level of concrete pouring technology; (2) Strengthening the information quality of personnel in the context of the changing situation in the information age, realizing the efficient use of information technology, providing rich information resources for the construction of concrete pouring in construction, ensuring its pouring Good condition, thus improving the application level of concrete pouring technology in long-term practice; (3) ensuring the reliability of vibrating operation in concrete pouring, and effectively distributing vibrating work according to information such as concrete density and steel bar distribution, And every time you vibrate, you will vibrate Inserted into the proper position, adding the right amount of concrete, reinforced concrete vibrated at the same time achieve the effect of the continuity of their job placement aspect and improve the level of application of concrete pouring technique in building construction. The relevant contents of concrete strength and temperature change in a building construction are shown in Table 1.

| Temperature (unit: °C) | Lower than 25 | Higher than 25 |
|------------------------|----------------|-----------------|
| <C30                   | 120            | 60              |
| <C30                   | 90             | 60              |

5. Relevant Elements to Be Considered When Using Concrete Pouring Technology in Building Construction
In combination with the sustainable development requirements of the construction field and the construction conditions of the building, in the process of using the concrete pouring technology to complete the corresponding construction operations, in order to exert the application advantages of
such technologies, it is necessary to consider the relevant requirements. Specifically includes the following aspects:

5.1. Reasonable Choice of Pouring Method
(1) In the construction of concrete with small thickness and large area, in order to improve the safety construction level in this aspect and maintain the good pouring quality of concrete, it is necessary for construction enterprises and personnel to pay attention to the rational selection of layered pouring method, and use it efficiently. The essence of the application of this pouring method is to pour from the lowest end of the building structure, after a certain distance, then the second round of pouring, and so on, can finally achieve effective pouring of concrete in the construction, can be a building Support for security performance optimization in the structure of the application.

(2) In the process of layered concrete pouring construction of the entire building structure, it is necessary to pay attention to the use of the whole layering such casting method. Based on the comprehensive stratification of concrete pouring construction, it can provide technical support for the whole concrete structure pouring operation, and it needs to start from the short side and then spread to the long side of the building for pouring to ensure the comprehensive stratified pouring good effect in the construction.

5.2. Strengthen Height and Time Control in Pouring Construction
In the process of concrete pouring construction, the construction enterprise should, according to the site construction conditions and engineering construction requirements, in order to avoid affecting the concrete pouring construction effect, it is necessary to strengthen the height and time control during construction, and implement this aspect in a targeted manner. The control plan promotes the quality of the concrete after the completion of the pouring operation to meet the construction requirements, and comprehensively enhances the potential application value and application level of the concrete structure in modern buildings [5].

5.3. Other Elements to Consider
The scientific application of concrete pouring technology in building construction also needs to consider these factors: (1) Starting from the aspects of cost economy and program feasibility, consider whether the concrete pouring construction plan is effective, and then carry out the corresponding construction work. Provide scientific guidance; (2) When the concrete pouring construction operation is completed, the maintenance work should be carried out in time, and the changes in temperature and humidity of the concrete during the curing process should be analyzed, and the specific response work should be implemented to avoid affecting the use of concrete. At the same time, it is necessary to consider whether the application effect of the concrete pouring construction technology is good, and combine the construction and industrial technical specifications to carry out a highly targeted concrete pouring construction operation.

6. Conclusion
In summary, through the consideration of the scientific application of concrete pouring technology, the construction plan can be implemented more efficiently, increase the technical content of the structural construction, and lay the foundation for the application level of concrete in the construction. Therefore, in the future, in the process of improving the construction condition of the building and optimizing its construction mode, attention should be paid to the application of concrete pouring technology, and the control work of its application should be put in place to promote the concrete pouring technology to play its due role in building construction. In the long run, the technical content and advantages in building construction will gradually increase, and meet the development requirements of advancing with the times.
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