Application of fair-faced concrete technology in civil construction

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Abstract: As the building industry continues to develop, people not only raise the quality of the building to a higher requirements, and new requirements for appearance features, appearance of clear water concrete, on when satisfies the requirement, also reflect its own unique value, for construction development plays a positive role. This article discusses the application of clear-water concrete technology in civil construction. For reference.

Keywords: Construction of clear concrete for construction of Civil Works

Clear-water concrete is also known as decorative concrete, pouring once in construction, does not take other adornments, thus distinct from ordinary concrete. Because no other adornments are used, so, Clear Water concrete is the most essential concrete, used in modern city buildings, More able to show pristine beauty, current, with deep cultural bottom Yun City, Gradually increase the amount of water concrete construction, makes the city more appealing. This paper analyzes the application of concrete technology in civil construction.

1. Overview of clear-Water concrete

Clear-water concrete except for practicality, also has a decorative effect, not only saves The building material, also reduced project investment, is an important contribution to building industry. due to clear water concrete after pouring, No longer decorate, make construction process less Normal concrete Strict, on use, Must follow the steps of the operation Strictly, square Can play a clear water effect, Add classic beauty to buildings, and general concrete compared to, has these features, first, saves the modifier link after the concrete is poured. second, due to clear water concrete surface smooth, flat, with Essential characteristics of concrete, So the construction process requirements are higher, If in construction Don't give priority to, will reduce its decorative effect, again, due to clear water concrete after pouring, no longer used decoration measures, To avoid the adorer Negative effects.

2. problems with clear-water concrete in construction

2.1. The scope of application of clear concrete is limited by the design scheme

Clear-faced concrete with smooth surface, flat attributes, also has concrete Essential Features, apply to City, plays an important role in improving the city's content. But this function works best if the, Building design to have characteristics, so, to show the essential characteristics of clear water concrete.

2.2. Decorative effects are poor

Clear-water concrete itself has the basic characteristics of ordinary concrete, appears natural, simple, Single This point, The can add a lot of beauty to a building. If you add a Some architectural modifiers, such as the Ming seam, Zen seam and bolts, improves its viewing, when pouring, To take the characteristics of the concrete zhe printing, will Make clear concrete buildings become real works of art.

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2.3. Clear-faced concrete doesn't look fine enough. Beautiful currently, Building with clear water concrete, The mostly shows a fine workmanship, appearance and so on. especially in the elevator, balcony and crevice transition area, The is now like It appears more prominent. for the reason, is the construction unit in the construction did not have the template placement work and crack control steps are caused by a bit. After this happens, to covers improper construction of the site, Builders usually use plastering, makes the building appears severely uncoordinated.

2.4. Template installation is not professional, limits the progress of clear-water concrete construction compared to ordinary concrete construction, Clear Water Concrete Advantages, does not casting only strict, and template Construction technology is also a great requirement. in general Concrete construction, template construction process usually includes, Use quantity, Remove and install, Template construction system, in clear-water concrete construction, This construction process clearly no longer fit, must be improved, to meet construction needs. but currently, template Construction scheme not innovated, in clear water concrete construction, still uses the go to scheme, make construction quality never break through.

3. Application of fair-faced concrete technology in civil construction

3.1. Quality requirements for fair-faced concrete construction

(1) Higher requirements for concrete surfaces. compared to plain concrete, Clear Water Concrete has a higher requirement for surface quality, is mainly manifested in these aspects:
First after the concrete is poured, surface to be flat, Smooth, should also have an even color, does not can have variegated. second, after pouring, to smooth the concrete case based on the check test, The detection standard is based on the Advanced plastering quality. again, compared to plain concrete, - Clear-water concrete requires higher color for plain concrete, requirements 8 m - inside, does not see color difference. for Clear water concrete, distance shorter, request on 4 A color difference is not found in meters. Fourth, concrete surface bubble condition condition. to ensure the appearance characteristics of clear-water concrete, In addition to satisfying the above characteristics, also requires small surface bubbles, distribute evenly, to be sufficient to not affect other features. fifth, To strictly control the cracks in the concrete surface. sixth, has good visual effects.

(2) requirements for quality of decoration. in clear water concrete construction, to ensure outside Beautiful, Spec template construction process, Reserve the clear seam. other, to guarantee Consistent surface color, Ensure concrete material is consistent.

3.2. Clear-Water concrete construction Essentials

(1) Template Construction Process Introduction. The template has the same weight in the ordinary concrete construction function, in clear water concrete, The meaning is more important, before construction, according to construction rules, set template. usually, Clear Concrete construction mode boards are one-time. High quality requirements, so choose Import as much as possible. this has no Add project cost, but also guaranteed construction quality.

(2) Quality requirements for concrete materials. heightened construction quality requirements, so Clear-water concrete should also be better than plain concrete. Cement quality improved, Sand thickness should be strictly controlled, should also add special leveling material, Is more important is, water-cement ratio with specific specifications. when the material complies with the construction conditions, on the line when concreting is poured, should ensure one-time pouring. To avoid decorating the after pouring, does not only increases construction strength, also damage appearance beauty. When the concrete is finished pouring, Should be coated in a timely manner, to avoid wind and rain corrosion, protection material must be transparent to ensure concrete color is unaffected.

3.3. quality control in fair-faced concrete construction

(1) control of air bubbles and holes on concrete surface. This behavior is caused by construction
irregularities cause, If mixing in concrete, stirring not enough, causes mixing of cement and sand uneven or When ingredients are, Add a lot of sand, causes a decrease in adhesion, plus vibrating bar vibrating full, bubble Phenomenon, to avoid bubbles and hole conditions, When a template is removed, should use a colorless release agent, To avoid the appearance of damage, other, after concrete pouring, should pay attention to late maintenance work, also effectively prevents bubbles from generating.

(2) rust Control on concrete surface. after concrete pouring, General surface rust phenomenon, This is a wire with a fixed surface, resulting from rain shower, if not processed in time, Rust will be further aggravated, Developed from the original light yellow to yellow. to prevent this from happening, should improve wire bundle mode, To avoid being Rain shower, other than, When rain occurs, The should be in time for the wire bundle to be protected by the bit.

(3) take effective conservation measures. After concrete pouring is completed, for Avoid problems, should be in time for. before project delivery, to make concretesurface free of contamination, cover plastic film, to achieve protection.

4. Epilogue

as the building industry continues to develop, to reduce project investment, ahead of schedule, mention High Construction quality, Clear-Water concrete construction technology will be widely used. This article in the clear on the basis of the present situation of water concrete construction, give the points of construction and quality control to the analysis, Want reference value.

References: