

PP-301

REINFORCEMENT PASTE

APPLICATION GUIDE / 应用指南

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Product	PP-301	Developed by	Nova Materials Group LLC, USA

1. PRODUCT APPLICATION

1. 产品应用

PP-301 is intended for use as an engineered reinforcement component within technically qualified cement-based engineered stone manufacturing systems. Uniform incorporation and distribution within the engineered mineral matrix are important to achieving the intended reinforcement effect.

PP-301 用于经技术确认的水泥基无机人造石制造体系，作为完整材料工程体系中的工程化增强性能组分使用。增强作用在工程矿物基体中的均匀加入和分布，是实现预期增强效果的重要条件。

2. GENERAL USE PRINCIPLES

2. 基本使用原则

- Use PP-301 according to the production formulation specified or approved by Nova.
- Determine dosage according to the approved material system, product geometry, manufacturing process, and required performance.
- Maintain uniform incorporation and distribution during material preparation.
- Do not assume that increasing dosage beyond the approved range will provide proportional performance improvement.
- When raw materials, equipment, process conditions, or product specifications change, verify performance through controlled production trials.
- 按照 Nova 确定或认可的生产配方使用 PP-301。
- 根据经批准的材料体系、产品尺寸、制造工艺及目标性能确定用量。
- 在制料过程中保持增强组分的均匀加入和分布。
- 不应认为超出批准范围增加用量会带来同比例的性能提高。
- 当原材料、设备、工艺条件或产品规格发生变化时，应通过受控生产试验验证性能。

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3. PROCESS INTEGRATION

3. 工艺配合

The engineering value of PP-301 extends beyond reinforcement itself. A controlled mineral framework supports effective stress transfer; stable rheology supports more uniform reinforcement distribution; and coordinated shrinkage control helps reduce internal dimensional stresses. Together, these functions allow reinforcement to operate as part of the complete materials-engineering system.

PP-301 的工程价值并不局限于增强作用本身。受控的矿物结构有助于有效传递应力；稳定的流变状态有助于增强组分更加均匀地分布；协调的收缩控制有助于降低内部尺寸应力。增强作用因此应作为完整材料工程体系的一部分发挥作用。

For consistent production:

- Follow the approved material formulation and production sequence.
- Maintain consistent raw-material quality, batching, mixing, and fresh-state conditions.
- Ensure uniform incorporation and distribution of PP-301 during material preparation.
- Evaluate reinforcement performance together with material uniformity, processing stability, and finished-product performance.
- Use the applicable approved manufacturing specification for MINERALSKIN™ and authorized OEM production.

为保持生产稳定性：

- 按照经批准的材料配方及生产顺序操作。
- 保持原材料质量、计量、搅拌及新拌料状态的一致性。
- 在制料过程中确保 PP-301 均匀加入和分布。
- 结合材料均匀性、加工稳定性及成品性能综合评价增强效果。
- MINERALSKIN™ 及授权 OEM 生产应按照相应批准生产技术规范执行。

4. STORAGE & HANDLING

4. 储存与操作

- Store in a cool, dry place.
- Keep the inner bag securely closed after opening.
- Protect from contamination and storage conditions that may adversely affect product quality.
- Follow the current approved TDS, SDS, and workplace safety requirements for detailed handling instructions.
- 存放于阴凉干燥处。
- 拆封后扎紧内袋保存。
- 避免污染及可能影响产品质量的不良储存环境。
- 详细操作要求应遵循当前批准版本的 TDS、SDS 及工作场所安全要求。

5. TECHNICAL SUPPORT

5. 技术支持

For formulation development, process adjustment, scale-up, or troubleshooting, technical consultation with Nova Materials Group LLC is recommended. Product application should be verified under actual production conditions before commercial-scale manufacturing.

对于配方开发、工艺调整、规模化生产或生产问题分析，建议与 Nova Materials Group LLC 进行技术沟通。在正式商业化批量生产前，应结合实际生产条件对产品应用进行验证。