

New Stone – Professional SWF Flooring Supplier, Fabricated with Compression-Molding & Gel-Curing Technology

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Commercial flooring projects face strict requirements for moisture resistance, surface durability, and stable installation. Shandong [New Stone](#) New Material Co., Ltd. addresses these engineering demands through a clear manufacturing architecture. Operating as a [Professional SWF Flooring Supplier](#), the company aligns its flooring technology with the specific criteria of wholesale buyers and project developers.

The manufacturing framework relies on standardized compression molding to form the structural core of the flooring. Within the material itself, a gel-curing structure locks the substrate fibers to prevent moisture penetration, establishing a permanent barrier. Above this core, an aluminum oxide surface treatment delivers structural wear resistance that withstands heavy foot traffic. By separating the technology into precise manufacturing stages, New Stone provides procurement teams with verifiable product evidence for commercial and residential applications.



The Gel-curing Structure Endows Swf Flooring with a Unique Moisture-anti-swelling

Mechanism

The ability of a flooring product to withstand moisture over the long term depends on its internal architecture. The waterproof structure of this flooring line relies on a dense non-porous substrate paired with a specific gel-curing structure. This internal mechanism actively locks the substrate fibers in place and resists water-vapor penetration from beneath the floor or from surface spills. By building the moisture resistance directly into the core, the material does not rely solely on surface coatings that might wear away over time.

This structural approach to water resistance provides a distinct advantage for environments prone to high humidity or subfloor moisture. Following a twenty-four-hour soaking period, the dense non-porous substrate demonstrates nearly zero water absorption, verifying its capacity to maintain dimensional stability in wet conditions.

For project buyers, this means the flooring can be specified for demanding commercial and residential applications where traditional materials might warp or swell. Instead of relying on generic marketing claims about water resistance, procurement teams can evaluate the specific gel-curing fiber locking mechanism and soaking performance data to determine the material suitability for their project environments.

Compression Molding Sits Within New Stone's Standardized Factory Process

The physical stability of the flooring is directly tied to the manufacturing environment where it is produced. Compression molding serves as a central manufacturing stage within the broader factory process at the company facility. With over ten years of flooring and wall-panel manufacturing experience, the factory utilizes automated production equipment to maintain consistent quality across large wholesale orders.

The manufacturing sequence is highly standardized, moving from rigorous raw material selection and formula research and development to the core compression molding phase. Following the molding of the substrate, the panels proceed to surface treatment, and finally to final inspection and packaging. This continuous sequence ensures that every phase of production is monitored and controlled. For business buyers placing high-volume orders, the presence of a controlled compression molding process provides assurance of batch-to-batch consistency. The separation of the molding process from the specific gel-curing structural formulation allows buyers to understand exactly how the physical properties are achieved. This transparency in the manufacturing workflow demonstrates a mature production capability that can support extensive distribution networks.

AC5 Surface Treatment Extends the SWF Story from Core to Wear Layer

While the internal core manages moisture and structural stability, the uppermost layer of the flooring must endure constant physical impact. To address the demands of high-traffic

commercial spaces such as hotels and office buildings, the flooring incorporates an aluminum oxide wear-resistant surface treatment. This specific material application achieves an AC5 grade, which is recognized for providing substantial defense against daily wear. The surface treatment delivers documented scratch, pressure, and abrasion resistance, ensuring the flooring maintains its visual and functional integrity even under heavy use.

Furthermore, the product integrates a precision click-lock glue-free installation system. This mechanical locking mechanism allows for tight, secure seams without the need for chemical adhesives, simplifying the installation process and reducing the time required for project completion. The combination of the highly durable surface layer and the glue-free locking system makes the flooring particularly suitable for underfloor heating applications, where temperature fluctuations demand a floor that can expand and contract safely. Project managers can evaluate the surface durability independently from the core moisture resistance, knowing the uppermost layer is engineered for extended performance.

Fire and Thermal Evidence Broadens SWF Project Fit

Commercial construction and public building projects mandate strict adherence to fire safety and thermal stability regulations. The flooring portfolio includes an A2 fireproof product line that utilizes an inorganic mineral composite substrate to achieve its high safety rating. By securing an A2 classification for fireproofness, the material provides architects and specifiers with a compliant solution for areas requiring rigorous fire mitigation measures.

Alongside the fire safety credentials, the flooring demonstrates significant thermal stability, making it appropriate for integration with climate control systems. Testing of the product under elevated temperatures shows a contraction rate of just zero point zero five percent after six hours of exposure to eighty degrees Celsius. This precise thermal performance data confirms that the flooring will remain dimensionally stable when installed over underfloor heating systems, elevating the discussion to critical building compliance.

Multi-Stage Inspection Connects SWF Technology with Shipment Control

Technical specifications and advanced manufacturing processes only hold value if the final delivered product meets the agreed-upon standards. To bridge the gap between production technology and order fulfillment, the company implements a comprehensive three-stage quality control flow. An independent quality control team executes a systematic inspection protocol that begins with raw-material sampling inspection to verify the input quality before manufacturing commences.

As the flooring moves through the production line, the team conducts in-process patrol inspection to monitor the compression molding and surface treatment phases. Before any order leaves the facility, a final finished-product inspection takes place. This shipment control process explicitly targets and eliminates common defects such as color difference, scratches, and

dimensional deviations. This structured approach to quality assurance provides wholesale buyers with the confidence that their large-scale deliveries will match the approved specifications.

SWF Technology Becomes a Spec-Led Conversation for Project Buyers

The combination of specific manufacturing techniques and structural innovations allows business buyers to conduct procurement conversations based on hard specifications. By breaking down the product into its component advantages, procurement teams can individually verify the gel-curing waterproof structure for moisture control, the AC5 surface treatment for wear resistance, and the A2 fireproof rating for safety compliance. Coupled with the transparency of the compression molding process and the multi-stage quality control system, these technical elements form a complete commercial profile.

Distributors and project developers are equipped to match these material attributes directly to their environmental requirements, whether they are focused on fire safety, heavy foot traffic, moisture exposure, or installation efficiency. For further verification of technical specifications and to initiate detailed project inquiries, buyers can access the official platform at <https://www.newstonefloor.com/>

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