

EUROSTONE QUARTZ

MANUFACTURING PROCESS

How EuroStone Quartz is Made in Italy

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Premium Surfaces

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Overview

- EuroStone Quartz manufactured in Italy using advanced Bretonstone Technology
- Combines natural quartz crystals with engineering precision
- Multi-stage process ensures consistency and quality
- Exceeds durability of natural stone

Step 1: Sourcing Raw Materials

- Premium natural quartz from Brazil, India, Turkey, and Italy
- Quartz is one of hardest minerals on Earth
- High-quality polyester resins used as binders
- Color-fast inorganic pigments for consistent colors

Step 2: Cleaning and Purification

- Raw quartz thoroughly cleaned to remove impurities
- Physical and chemical purification techniques
- Ensures consistent quality in final product

Step 3: Crushing and Grinding

- Cleaned quartz crushed into smaller particles
- Sizes range from fine powder to bean-sized chunks
- Allows for different textures and patterns
- Raw crushers, hammers, and ball mills employed

Step 4: Mixing and Blending

- Crushed quartz blended with resins and pigments
- Standard: 93% quartz, 7% resin
- Thorough mixing ensures uniform slabs
- Consistency similar to wet sand

Step 5: Molding and Compacting

- Mixture poured into large molds (Standard 56" x 120", Jumbo 63" x 126")
- Subjected to intense pressure under vacuum
- Bretonstone Technology vibration process
- Eliminates air pockets for dense, non-porous surface

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Step 6: Curing and Solidification

- Slabs cured at high temperatures (90-100°C)
- Solidifies bond between quartz and resin
- Enhances strength and durability
- Patterns and colors become permanently fixed

Step 7: Polishing and Finishing

- Diamond-tipped blades and polishers create glossy surface
- Multiple finishes available: Polished, Grain, Rocplan
- Calibration ensures perfectly flat slabs
- Quality inspection before distribution

Step 8: Quality Control

- Stringent quality checks for color consistency
- Dimensional accuracy verification
- Only approved slabs shipped to fabricators
- Meets international quality standards

The EuroStone Advantage

- Italian manufacturing heritage
- Cutting-edge technology and quality control
- Surfaces harder and more consistent than natural stone
- Perfect fusion of nature and engineering