



● What is Flexible stone?

Flexible stone, not porcelain, not tiles, it is artificial stone, a new type of eco-friendly building materials. It is made from modified clay and nature stone powder, also known as MCM (Modified clay material).

Mixing of the inherent colors of Modified Clay and nature stone powder, special temperature-controlled modeling system molding, baking, irradiation cross-linking and become a kind of flexible architectural decorative surface materials.

It is soft, light, thin, bendable, strong flexibility, fire-proof, water-proof, moisture-proof, durable, freeze-thaw resistance, aging resistance, no radiation, non-toxic, environmental-friendly, easy&fast installation, save a lot of transport cost and labor cost.

It is inorganic materials, will not burn or support combustion, already pass Fire classification A2 standard.

It is widely used in the interior and exterior wall cladding of residential buildings, villas, hotels, office buildings, schools and commercial buildings. It can be designed on cylindrical and curved surfaces, even on the ceiling.

Thickness: 2.5-8mm Weight: 3-6kg/m² convenient on transportation and construction.

● INSTALLATION 安装 (Videos will be also provided)

1. During outdoor construction, avoid rain within 48 hours after pasting. The construction environment temperature should not be lower than 5℃ or higher than 40℃.

室外施工时，粘贴 48 小时内避免雨淋，否则可能脱落或返碱。施工环境温度不宜低于 5℃或高于 40℃。

2. Indoor can use neutral structural adhesive(Silicone glue)/low-alkali marble tile adhesive, outdoor use low-alkali marble tile adhesive. 室内可以使用中性结构胶(中性硅酮胶)或低碱性瓷砖胶，室外应使用低碱性瓷砖胶。

3. About the glue/adhesive, please select the brands that reach the national standard or international C2 standard, such as the white marble tile adhesive of DEGAO and MAPEI.

瓷砖胶应选用正规达到国家标准或国际 C2 标准的品牌，如德高、马贝的白色大理石瓷砖胶。

4. Note: In order to avoid the phenomenon of back to alkali and white(efflorescence), it is necessary to use the adhesive or caulk with low-alkali. 注意：为了避免返碱现象，必须使用低碱性瓷砖胶和防水抗返碱填缝剂。

5. Generally, the adhesive is only applied to single side, which is the back of our product or the wall. Large-sized heavy products could be considered to apply on both the back and wall to make the bond more secure if necessary.

软石产品，一般只需单面刮浆，即在产品背部刮浆或者在墙上刮浆粘贴。较大较重产品按实际需求可在背面及墙面双面刮浆，使粘结更加牢固。

6. For indoor like wood base, we can use structural silicone to paste, after that should use air nails to reinforce. If other base, should use adhesive. Large-sized heavy products can be reinforced with air nails after pasting according to actual needs.

板材类基底的，可以使用中性结构胶，粘贴后打气钉加强固定。

其他基层的，做好基层处理后，使用低碱性瓷砖胶刮浆粘贴，较大较重产品按实际需求在粘贴后打气钉加固。

7. Whether to use structural silicone or adhesive depends on your substrate and has nothing to do with the size of our product. 使用结构胶还是瓷砖胶，仅取决于基层，与我们的产品尺寸无关。室外尽量使用瓷砖胶。

8. Our product can be used outdoor, not worry about sun or rain. If want to increase stain-resistance, can spray sealer. (for printed pattern we already spray sealer.)

我们的产品可以安装在室外，不用担心太阳照射和风吹雨淋。如果想提高防水性和抗污性，后期可以喷罩面剂。（我们的打印系列产品出厂时已经喷了罩面剂）

9. Whether to leave seams or not depends mainly on your design.

If indoor, where without water, can be zero gap installation (1mm natural seam). Outdoor we suggest leave 2-3mm seam and do the caulking. Our material not afraid of the water, It just prevents water from seeping in through the gaps. If the wall waterproofing is not done well, it will affect the building. If the wall do great waterproofing job, can be zero gap (1mm natural seam), but make sure good works with 100% full adhesive paste and then make it dry well after installation, and must use C2 low-alkali tile adhesive.

关于留缝与否，主要取决于设计需求。如果室内没有水的地方，可以零缝隙安装（1mm 自然缝）。室外建议留 2-3mm 缝隙，然后做填缝处理。我们的材料不怕水，只是防止水从缝隙中渗进去。如果墙面防水做得不好，怕会影响建筑物。如果墙面防水做得好，可以零缝隙（1mm 自然缝）安装，但一定要 100%满胶粘贴，安装后要等干透，并且必须使用 C2 低碱瓷砖胶。

Choose big-sized panel can make less seam. Metal strips can also be used to deal with the seam.

选择大尺寸产品可以减少接缝。缝隙的处理还可以使用金属修边条。

3.辅料使用说明 Instructions of the accessories

③粘接剂的选择

Choice of adhesives

(1)可选用魔法石自主调配的专用瓷砖胶，适用于所有产品

Special ceramic tile glue independently prepared by magic stone can be selected, which is applicable to all products of MS

(2)选用正规达到国家标准或国际C2标准的品牌，如德高，马贝的白色大理石瓷砖胶

Select the brands that achieve the national standard or international C2 standard, such as the white marble tile glue of DEGAO and MAPEI

(3)不建议用酸性的玻璃胶，胶水使用不当后期可能会出现透胶、空鼓、起泡情况，室外尽量选用专用瓷砖胶

It is not recommended to use acidic silicon glue. Improper use of the adhesive may result in adhesive penetration, hollowing, and foaming in the later stage. Special ceramic tile adhesive should be used outdoors as much as possible

(4)正常养护时间为20-30天，在此期间请勿去撕扯产品，以防脱落

The normal curing time is 20-30 days. Please do not tear or move the product to prevent it from falling off



魔法石软瓷专用瓷砖胶 20KG/包

MAGIC STONE Specialized ceramic tile glue 20kg/bag

Important Notice

Customer should understand and accept the following:

魔法石软瓷系列产品施工流程图

1. 基层处理
Basic Treatment
2. 分格、弹线
Trial place/Flip line
3. 批刮粘接剂至墙面上呈梳形状
Scraping the adhesive to the wall as a comb shape
4. 产品背面批刮薄层粘结剂
Scraping thin layer of adhesive on the back of the product
5. 粘贴产品：挪压、对线、压平、刷缝
Paste Products: Move press, on-line, flatten, brush seam
6. 彩用专用勾缝剂填缝
Using special grouts caulking
7. 成品清理、养护
Finished products cleaning, conservation

施工辅料 Bonding Accessories



施工工具 Tools



柔性石材施工流程 CONSTRUCTION METHOD of FLEXI STONE



Move back and forth the products by hands and ensure alignment, use the clapper to make the slurry evenly squeeze to the side of the plate. Note: Do not press or tap products like hard tiles, otherwise the surface of the board will be uneven, affecting the aesthetic effect. 用双手来回挪动挪压和对线，使浆均匀地挤到边边才行。粘贴后用胶板压实，不能用手掌或手指使劲按压，不能像贴瓷砖那样敲打，否则会出现凹凸感，影响美观效果。



Clapper

If leave gaps please stick masking paper on both edge side of the product.

填缝、修补缝时，在需要填缝的边角两处先贴上美纹纸。



● MAINTENANCE 维护

1. For flexible stone series with concave-convex texture, special attention should be paid during construction. The surface should not be contaminated with materials such as adhesives, cement, and paint, otherwise it will be difficult to clean. The construction workers should keep hands clean.

1) When the slurry gets on hands, it is strictly forbidden to grab (or touch) the product surface with the hands, otherwise it will increase the cleaning cost.

2) If the slurry is stained on the product surface, it cannot be wiped wet, and it must be scraped off with a knife when it is dried. Otherwise, it will get more dirty.

2. Clean the surface with a dry sponge.

3. The rain/water should be prevented within 48 hours after pasting.

4. After ensuring the product surface is clean, if the project requires, a special water-based sealer should be applied evenly, which can be applied by spraying or rolling. (It is optional based on site requirements.)

● ABOUT STAIN RESISTANCE AND WATER RESISTANCE

1. MCM stone is made from modified clay and stone powder. Therefore, the physical properties are stable and neutral. There is no static electricity, so it does not absorb dust and stains. And the absorption rate of surface is 0.5%. Daily pollution like rains will not affect the product because the material could be dried soon.

2. However, poor stain resistance is a common problem of all stone products, should avoid oil stains and pigments. If you want to enhance the stain resistance and abrasion resistance of the surface, spray a layer of water-based sealer after paving, just like install the natural stone. But it will affect a little the texture.

3. If your installation environment is very easy to be polluted with stain, please spray water-based sealer.
4. The surface's water absorption rate is 0.5%, while the body's water absorption rate is 12%. In shower room/outdoor, the wall needs to be coated with a waterproof coating before paving our products. And please leave gaps and do the caulking too.

● Can it be installed over glossy smooth surfaces like tiles?

Yes, it can. Please brush a interface agent to make the surface rough first. Then use adhesive to install our flexible stone.



● OUTDOOR USE

1. Daily pollution like rains will not affect the product because the material could be dried soon. If you want to enhance the stain resistance and abrasion resistance of the surface, spray a layer of water-based sealer after paving, just like install the natural stone.
2. Our material is made from modified clay and natural stone powder, moulding, baking, not fired-made. It has a relatively low density and Its material determines its good breathability. What's more, the test report above shows the aging resistance 2000h is the basic request, actually our material can be tested and achieve more long time over 3500h, which is equivalent to no aging in 50 years. It doesn't matter if it is exposed to sun for a long time, because the color of MCM(none-printed series) comes from the natural clay, it is the original color, and the degree of color change is very low. After 30 years, the color will change slightly, similar to the weathering of stone. The color of the product will fade by about one degree (tested with a chromatograph).
3. Our material is heat resistant and freezing resistant. The product expansion rate is less than 0.5%. In addition, since the raw material of the product is clay, clay is stable, and the product is flexible and has a certain ductility, the temperature rise or fall has little effect on the size of the product. It can be used in both low temperature environment (-30 ± 2) °C and high temperature environment (50 ± 2) °C without abnormalities.
4. Magic stone printed series is also durable because we use inorganic Spanish ink 3D inkjet printing technology and already spray a layer of sealer to protect the color. Many our customers also use it for outdoor and have real cases. At least 10 year no color changing.