

mosaico  
digitale

TECHNICAL SHEET

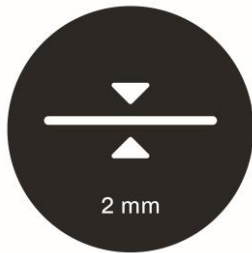
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# MOSAICO DIGITALE

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The tiles are very thin (2mm), very light (1,2kg/m<sup>2</sup>) and customizable in shapes, dimensions and colors.



2 mm

**THIN**



**CUSTOMIZABLE**



1,2 Kg/m<sup>2</sup>

**LIGHT**



**RESISTANCE**



**LONG-LASTING**

# MOSAICO DIGITALE

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## WARRANTY CERTIFICATE

Dear Customer,

PEPE&CON s.r.l. thanks to its expertise and its innovative technologies, manufactures resin products of extreme quality, integrity, reliability and durability, certified by accredited institutions.

Therefore PEPE&CON s.r.l. hereby confirms that the product Mosaico Digitale® you have purchased is being designed and manufactured as per the international standards. PEPE&CON s.r.l. also warranties that the product is free of any defect in material workmanship. The period of warranty is of 10 years from the date of purchase. Would you notice

any defect within the above said period, we will repair or replace it at no additional charge.

PEPE&CON s.r.l. will not have any liability or obligation under this limited warranty in case of:

- Any defect caused by misuse or abuse of the product;
- Damage due to mechanical trauma accidentally produced by misuse;
- Accidental falls of blunt instruments;
- Damage caused by natural disasters;
- Damage caused by unauthorized modification;
- Defects caused by improper storage of the product.

# MOSAICODIGITALE

## AUTOMOTIVE TESTS

### OUTDOOR RESISTANCE

Florida Test	SAE J 1976	Direct Inland ,45°South	Good (after 1 year)
Arizona Test	SAE J 1976	Direct Weathering , 45° South	Very Good (after 1 year)
Xenon WOM	SAE J1960-89 2000h	65°C- cycle 102minUV+ 18 min. UV/waterspray	no color change, minimal gloss change
Weatherometer QUV-B	SAE J 2020	1000h (8hUV 60°-4hcond.50° C)	no color change, minimal gloss change
Weatherometer QUV-A	SAE J 2020	2000h (8hUV 70°-4hcond.50° C)	no color change, minimal gloss change

### CHEMICAL WATER RESISTANCE

Fuel Resistance	G.M.6073	immersion	No gloss change/No degradation
Acid Resistance	MS-CG12	Spot Test 0.5-10% conc.	No gloss change/No degradation
Solvent Resistance	GM 6121 M	Various types of used chemicals	No gloss change/No degradation
Water Immersion	WSK-M3G178	240 h.@ 45°C	No gloss change/No degradation
Salt Spray Resistance	ASTM B117-95	2000 h @38°C 5% NaCl	No gloss change/No degradation
Humidity Resistance	MS-CG12	250h @ 40°C 100% R.H.	No gloss change/No degradation
Environmental Cycle	G.M.6073	Three Cycles	No gloss change/No degradation

# MOSAICODIGITALE

## AUTOMOTIVE TESTS

### HEAT RESISTANCE

Heat Resistance	MS-CG12	250 h @ 80°C	No gloss change/No degradation
High Temperature Resistance	G.M.6073	60 min. @ 93°C.	No gloss change/No degradation
Thermal Shock	ESK-M99P16-A:3.5.5	16h.@40°C+ water@70°C/10cycles	No gloss change/No degradation

### ABRASION RESISTANCE

Stone Chip Resistance	SAE J400:85	0.47L of 250-300 graded gravel fired @sample @480KPa in 5-10s	Chipping rating 10- No chipping to substrate
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### FLAMMABILITY RESISTANCE

Flammability Resistance	FMVSS 302	ISO 3795	Flame self extinguishing
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# MOSAICODIGITALE

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## FLAMMABILITY TESTS PERFORMED ON DOMING SYSTEM

### **Ignition Test performed on liquid components :**

Polyol (LCR... or MF...) Flash Point > 175 °C

Isocyanate (DK...) Flash Point > 200°C

### **Flammability Tests performed on cured material :**

We can confirm you following information about Flammability Test performed on our doming System:

**UL 94 norm** ( American norm related to flammability of materials). We tried to check a resin specimen at thickness 3 mm towards horizontal and vertical burning test.

According to vertical test , the resin failed but according to horizontal burning test, the resin specimen stops the flame after few seconds.

According to this test result , we can classify the polymerized doming resin as rate **UL94-HB** at thickness 3mm. Please note however that flammability test has to be performed on the whole domed label: it means hat also the support, back adhesive and inks have to answer to requests of UL94.

Consider that PVC supports at low plasticizer content, show the better performance as flame extinguishing behaviour.

### **Flammability Test performed by Ford**

Regarding another flammability test performed by Ford for automotive materials, we can confirm that our resin can be classified as self extinguishing .

Reference Ford method is FMVSS 302 that refers to ISO 3795 norm.

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## CLASSES OF MEMBERSHIP

Product classified: **Class 1**

### **cfr3280.203**

Combustible interior wall finishes, other than foamed plastics, are permitted in a building required to be of noncombustible construction provided they are not more than 25 mm thick, and have a flame-spread rating not more than 150 on any exposed surface, or any surface that would be exposed by cutting through the material in any direction.

Flame spread limitation and fire protections requirements, it should be fine with our product because our resin is only 2mm tick.

### **Red List**

Our company certifies, our product does not contain materials present in the red list. Also our product is certified to be in contact with food.

# MOSAICO DIGITALE

## CLASSES OF MEMBERSHIP

Product classified: **Class 1**

Mosaic in resin polyurethane flame-retardant in class 1.

### **Description**

Application on the wall with grout Mapei Mosaico Digitale is a wallcovering composed of polyurethane resin flame-retardant in class 1. It resists to fire in line with the Italian law of 6th March 1992 implementing the UNI 9796 standard. Class reaction to fire attributed to these artifacts is equal to 1.

**This technical sheet has been drawn up in compliance with the manufacturer's declaration as per the UNI 9796/CNVVF/CCI law.**

### Characteristics

Mixture ratio	1/1
Application temperature	+10°C ÷ +25°C
Application	roller 6 mm / brush / spray
Thinning (if necessary)	DMC 50 thinner
Coverage	450 g/m <sup>2</sup>
Dust dry	1 h 30' <sup>(1)</sup>
Fingerprint dry	6 h <sup>(1)</sup>
Pot-Life	3 h <sup>(1)</sup>
Sandpapering	24 h <sup>(1)</sup>
Gloss level	90 gloss <sup>(2)</sup>
Chemical and physical characteristics	good
Coating	excellent



# MOSAICODIGITALE

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## How to install

### **ADHESIVE**

For interiors you can use MAPEI Adesilex VS 45 (or similar), and for outdoor and/or humid environments you can use MAPEI KERALASTIC T (or similar).

Please follow the instructions described in this page.

- In case the mosaic has to be applied to existing tiles, make sure that the surface is free of dust, paints, waxes and oils prior to installation.
- Fill the joints of the old tiles with the same glue used for the mosaic application and level it perfectly.
- If you have to apply the mosaic directly either to plastered or drywalls, make sure that the surface is absolutely flat and smooth.
- Mark on the wall the guideline for the application of the first row of tiles.
- Spread glue evenly with a notched trowel. The layer of the adhesive must be very thin.
- Soon after the application, press immediately the tiles with a soft roller to help them adhere more.
- Remove the transparent protective film from the mosaic tiles.
- While the adhesive is still fresh, clean off glue residues with a soft wet sponge, removing residues once dried is a complicated process.
- In case you need to cut the tiles, you can do it with a scissors or a utility knife.
- Wait until the glue is completely dried before grouting.
- Clean the joints from any dust.
- Make sure that the room temperature does not exceed 95 F.

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## How to install

### **GROUTING**

- Use MAPEI Keracolor FF mixed with MAPEI FUGOLASTIC at 30% mix (or similar).
- Before applying the grouting material, wait until the adhesive is completely dry.
- Remove residual powder from the joints.
- Make sure that the room temperature does not exceed 95 F.
- Make a smooth paste of the grouting material into a clean bowl. If you use a mixer, switch it on at low speed in order to avoid the formation of air bubbles.
- Use the mixture while it is still fresh. Dried paste could scratch the glossy surface of the resin mosaic.
- Fill the joints completely and thoroughly with a rubber spatula to avoid irregularities.
- Remove the excess grout before it dries up. Clean again with a soft sponge after approx. 15-20 minutes, once the mixture becomes opaque.
- Wipe the surface with a soft clean cloth to remove any powdery residue completely.
- NEVER use epoxy materials for grouting mosaics. If not used properly, these materials can make the resin opaque and, once damaged, getting back to the glossy look of the mosaic is impossible.

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