

# MapeFlakes SP

## Decorative acrylic colored flakes incorporated in Mapefloor epoxy and polyurethane floor and wall systems

### DESCRIPTION

**MapeFlakes SP** is a range of colored acrylic flakes incorporated in the Mapefloor epoxy and polyurethane floor and wall systems to provide a decorative and textured alternative to conventional floor and wall coverings.

**MapeFlakes SP** are colorful, tough, low-maintenance, seamless, durable coating system components for floor, wall, and other surfaces for commercial, institutional and domestic areas of application.

### TYPICAL APPLICATION EXAMPLES

- Topping of new floor surfaces or refurbishment of old floor substrates;
- Decorative coating for internal walls;
- Recommended for decorative floor and wall systems used in various commercial, institutional and domestic areas of application such as malls, shops, offices, showrooms, community centers, etc.

### TECHNICAL CHARACTERISTICS

- Seamless surface;
- Water-resistant;
- High resistance to wearing, great for traffic areas;
- Available in four flake sizes: micro, small, large, and extra large;
- Available in 10 pre-blended colored flakes.

### APPLICATION PROCEDURE

#### Preparing the substrate

Surfaces should be structurally sound, clean and free from loose particles, oil, grease, or any other contaminants. Existing floor and wall coverings such as tiles, paint, plaster should be well-bonded onto the substrate.

Concrete surfaces to receive the **MapeFlakes SP system** shall be prepared by vacuum shot blasting, grit blasting or such other effective methods which enhance good adhesion.



TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Product form:	Pre-blended flakes
Color availability:	<ul style="list-style-type: none"> <li>• Black</li> <li>• White</li> <li>• Midnight Blue</li> <li>• Pastel Blue</li> <li>• Tropical Blue</li> <li>• Mint Green</li> <li>• Pastel Blue</li> <li>• Pastel Cream</li> <li>• Pastel Grey 1</li> <li>• Pastel Grey 2</li> </ul>
Size availability:	Micro (1/8 in. = 3.175 mm) Small (1/4 in. = 6.35 mm) Large (1/2 in. = 12.7 mm) Extra Large (1 in. = 25.4 mm )

Existing tiles need to be cleaned using suitable detergent. After cleaning, the tiles need to be grinded with diamond grinder machine to roughen the surface. All existing tile joints need to be filled and leveled with **Primer SN**. Old, loose, broken and brittle tiles and tile joints need to be removed and replaced with epoxy mortar-quartz mix using **Mapefloor I 900** binder mixed with **Quartz 1.9** using a resin:quartz sand mixing ratio of approximately 1:9 or **Mapefloor EP19 SP**.

#### Priming the substrate

Mix the components of **Primer SN** with a low-speed mechanical stirrer until a homogeneous mix is obtained. Add the **Mapecolor Paste SP** and re-mix until homogeneous. Apply onto the substrate using a brush or roller at a consumption of approximately 0.30 - 0.50 kg/m<sup>2</sup> and let it reach touch-dry condition.

#### Application of the basecoat and MapeFlakes SP

Mix the components of **Mapefloor I 300 SL** or **Mapefloor I 312** with a low-speed mechanical stirrer until a homogeneous mix is obtained. Add the **Mapecolor Paste SP** and mix until homogeneous. Apply using a roller at a consumption of approximately 0.20 - 0.30 kg/m<sup>2</sup>. While the basecoat is still wet, broadcast the **MapeFlakes SP** over the surface (the amount of **MapeFlakes SP** to be broadcast will depend on the desired finish).

Let it cure for 12 - 16 hours at 30°C. Scrape the surface of the flakes using a metal scraper and remove all loose and unbonded flakes. Lightly sand protruding flakes to ensure an even surface.

#### Application of the sealing coat

Mix the components of **Mapefloor I 300 SL TRP** until a homogeneous mix is obtained. Apply 1 coat using a roller onto the flakes and allow to dry for 6 hours at 30°C.

#### Application of the finishing coat

For a textured gloss finish: Apply 1 coat of **Mapefloor I 300 SL TRP** using a roller onto the flakes. Allow to dry for 24 hours.

For a textured matt finish: Apply 1 - 2 coats of **Mapefloor Finish 58 W** (observe overcoating interval of the product). Allow to dry for 24 hours.

For a smooth gloss finish: Apply 1 mm self-leveling coat of **Mapefloor I 300 SL TRP**. Allow to dry for 24 hours.

For a smooth matt finish: Apply 1 mm self-leveling coat of **Mapefloor I 300 SL TRP** and allow to dry for 24 hours. Lightly sand the surface and apply 1 - 2 coats of **Mapefloor Finish 58 W** (observe overcoating interval of the product). Allow to dry for 24 hours.

#### Wall application

Apply the **MapeFlakes SP system** on walls following the same procedure of floor application.

## **CONSUMPTION**

Typical consumption of the **MapeFlakes SP** is 0.4 - 0.8 kg/m<sup>2</sup>; the actual consumption will depend on the size of the flakes used and the degree of flake density of the desired finish.

## **PACKAGING**

Available in 5 kg boxes.

## **STORAGE**

Store in its original unopened packaging in a dry place.

## **SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION**

**MapeFlakes SP** is an article and referring to the current regulations does not require the preparation of the material safety data sheet. During use it is recommended to wear gloves and goggles and follow the safety requirements of the workplace.

PRODUCT FOR PROFESSIONAL USE

## **WARNING**

*Although the technical details and recommendations contained in this product report correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to*

*confirmation after long-term practical applications: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.*

## **LEGAL NOTICE**

***The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website [www.mapei.com.sg](http://www.mapei.com.sg). ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.***

***Please refer to current version of the Technical Data Sheet, available from our website [www.mapei.com.sg](http://www.mapei.com.sg)***

**All relevant references  
of the product are available  
upon request**

**Mapei Far East Pte Ltd**  
28, Tuas West Road - Singapore 638383  
Tel (65) 6862 3488 - Fax (65) 6862 1012/3  
E-mail: [mapei@mapei.com.sg](mailto:mapei@mapei.com.sg) - Website: [www.mapei.com.sg](http://www.mapei.com.sg)



**BUILDING THE FUTURE**