



Top Floor CM 045

Product Description

It is a two-component, non-cracking decorative colored water-based acrylic asphalt & concrete paint with high UV resistance, high mechanical strength that provides very good adherence to the asphalt & concrete surface it is applied to, consisting of powder component containing high strength special aggregate and mineral hardener and a special acrylic polymer-based colored liquid component

Product uses:

Protective coating and painting for all kinds of asphalt and concrete floors, creation of road corridors for safety purposes, determination of bicycle and pedestrian paths, protective and decorative coating and painting of concrete and asphalt floors of public transportation parks, gardens and children's playgrounds used.

Properties

- High adhesion, crack-bridging.
- Fast, easy and cost effective application by manual application or spraying.
- Fast setting properties for minimal downtime and rapid completion of the application.
- Environmentally friendly.

TECHNICAL PROPERTIES

<i>Appearance/Color</i>	Matt finish – Available in many colors like white, blue, green and oxide red.
<i>Consistency:</i>	Thixotropic mortar
<i>Density:</i>	1.7 kg/ltr
<i>Application thickness / layer</i>	1.5-2 mm
<i>Open time:</i>	≈ 90 [min] (20°C.)
<i>Consumption:</i>	1-1.2 kg /m ²
<i>Complete Drying Time:</i>	minimum 2 days (20°C)
<i>Service Temperature:</i>	-10°C to +70°C
<i>Application temperature:</i>	+5 °C to +30 °C
<i>Time to give for traffic :</i>	7 days (20 °C)

Application Details

<i>Application method:</i>	Brush or airless machine
<i>Thinner:</i>	Do not thin
<i>Cleaning of tools:</i>	Fresh water
<i>Packing:</i>	25 kg Powder + 8 kg liquid

Surface Preparation

- The substrate has to be free from dirt, grease, laitance, loose concrete, loose particles or layers which could adversely affect adhesion.
- Remove all damaged concrete and prepare substrate by sand or grid blasting, high pressure water jetting, or other methods until base concrete is exposed, offering sufficient roughness (bond) and open pores.
- The substrate must be frost-free and have a cohesion of minimum 1.5 N/mm².
- Damaged areas need to be repaired with [Top Mortar CM 3000](#)
- For Asphalt surfaces the surface should be free from sand and dirt.



Mixing

- *The product has to be mixed using a suitable forced action mixer (400-600rpm).*
- *The mixing head must be completely immersed in the powder.*
- *Put the liquid component into the mixer and add one liter of water and then add the total quantity of powder.*
- *Mix for 3 minutes.*
- *The mixing time depends on the type of mixer.*
- *4 minutes is the minimum.*
- *Always use the total volume of liquid and powder to prevent color variations and to obtain optimum coating properties.*
- *Once the mortar is ready mixed, apply immediately.*
- *Do not prepare more material than can be used within the open time of the material.*

Application

- *The material is applied in minimum 2 layers of 1mm by using a brush or roller.*
- *Alternatively suitable spray equipment can be used.*
- *Apply the first layer on the dampened substrate in a horizontal stroke and allow curing for minimum 1 hour depending on ambient temperature.*
- *Apply the second layer in a vertical stroke. Predampening the initial layer is only allowed in very dry conditions.*
- *Condensation on the first coat needs to be removed before application of the second layer.*
- *Spray applications require brushing of the first layer to properly fill voids and achieve uniformity.*
- *Do not apply the material if the ambient temperature is below 5°C or expected to fall below 5°C within 24 hours.*

PRECEDING COAT:

For Concrete Surfaces : Concentrated Sealer

For Asphalt surfaces : Do not use any primer

Curing

- *After treatment has to be according EN 13610 in combination with DIN EN 1045-3.*
- *In warm or windy conditions protect the applied material from dehydration by mist-spraying with clean water or protective tarpaulins until the initial set has taken place.*
- *In cold conditions cover with insulated tarpaulin, polystyrene or other insulating material.*
- *Protect surfaces against frost and rain until final set has taken place.*
- *In cold, humid or ventilated areas it can be necessary to allow for a longer curing period, or to introduce forced air movement to avoid condensation.*
- *Never use dehumidifiers during the curing period or within 28 days after application.*



Important Remarks:

- Surfaces must have enough structural strength.
- Concrete should have minimum of 25 N/mm² compression resistance and minimum 1, 5 N/mm² tensile strength.
- Applications below 10°C should be avoided.
- The surface should be protected from moisture and rain for 24 hours after application.
- All application tools and equipment should be cleaned with water immediately after the use. Cured material can only be removed mechanically.
- Use only where application and drying can proceed at temperatures above: 10°C/50°F. The temperature of paint itself should be 15°C/59°F or above.

Shelf life & Storage:

12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

Safety:

For information and precautions on the safe handling, transportation storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notice:

The information presented herein is given in good faith but without warranty. It's based on our experience, indicates our laboratory work results and does not necessarily indicate final product performance. We cannot be held liable for the results obtained with our products and for any loss or accident that may result from its use. Our suggestions don't release you from the obligation to check their validity and to test our products for both your process and end use application. All our products are sold in accordance with our General Conditions of Sale. We don't make any warranty, express or implied, including but not limited to the merchant ability and fitness for a particular purpose.

