

**about the product:**

**Plastifloor® 800** PUMMA is a waterproof traffic deck coating system that combine the fast curing MMA resin technology with Polyurethane (PUMMA-technology)

The **Plastifloor®** system is composed by **Plastifloor® 112** primer, and its additives for bitumen (Additive B), steel and tiles (adhesive agent) and for damp concrete ( Additive 113)

All **Plastifloor®** resins are curing with the same hardener: **Plastifloor®** hardener 50 W, if You like to increase the tire mark resistance use hardener/m into the final sealer layer.

Basic application include ramps, intermediate and top parking decks of a parking structure as well as high wear areas, such as loading docks, bridges and also dumpster surfaces ( **Plastifloor® 800** mortar C2)

**Faster than other systems:**

**Plastifloor®** PUMMA systems are curing fast, so there is no loss of revenue during the renovation or just a minor disruption to normal operations.

Minimal downtime (Approx. 45 min.) between layers, even in cold temperatures.

Open to the traffic within one hour after application completion due to its high adhesion and extreme abrasion resistance.

**High Wear:**

**Plastifloor® 800** is developed for high wear and its metal snow plow, tow motor resistant.

Designed for waterproofing concrete slabs and water damage protection over heavily abraded areas, such as loading docks, dumpster storage areas, ticket splitters and helical ramps.

The fast curing MMA curing technology combined with high elastic Polyurethane compounds delivers extreme durability, decorative functionality and crack bridging capabilities for both intermediate deck and top deck projects, even at low temperatures.

**Cold temperature application:**

**Plastifloor® 800**'s versatility with scheduling restoration and application during the winter months.

The system can be applied at temperatures as low as -20°C/-4°F if You add on site the **Plastifloor®** cold temperature accelerator B 101.

**Plastifloor® 800 with PUMMA technology**  
waterproof traffic coating system for road repairs,  
mortars, linings, bridge decks

The **Plastifloor®** MMA resins are able to offer a wide range of high performance car park decking, line marking, joint construction and surface marking solutions. Based on the fast curing and incredibly durable MMA and PUMMA resin technology, these MMA and PUMMA resin systems are ideal for high traffic areas and help overcome the installation challenges resulting from long periods of inclement weather. Skid resistance, speed of installation and outstanding durability are some of the most important factors that customers expect, so our systems have been developed to offer highest performance in all of these areas. **Plastifloor®** is a brand name for MMA and PUMMA based coatings for all of our car park decking, line marking and surface marking systems. Designed for use on both concrete and asphalt substrates, all our systems cure within 1 hour of installation at temperatures down to -20°C/-4°F, making them ideal for use throughout the year. The ultra fast cure time we offer enables projects to be completed quickly thus reducing disruption and lower cost.



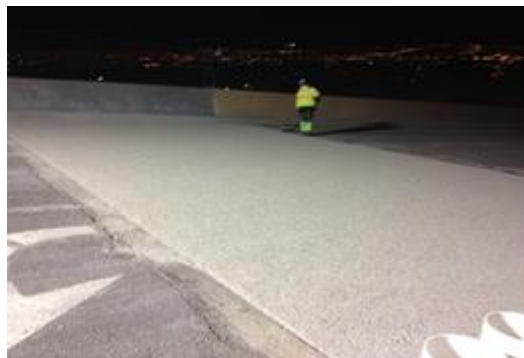
Park deck coatings



lining systems



Surface Marking Solutions



bridge deck overlays

# Plastifloor® 800 with PUMMA technology

waterproof traffic coating system for road repairs,  
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**PLASTI CHEMIE**  
**Produktionsgesellschaft mbH**

To complement our car park and highways product range, we have also developed an innovative permanent pothole repair solution called Plastifloor® 050/051 ideal for all pothole repairs, small areas of car park or road resurfacing and ironwork re-instatement.



Plastifloor® mortar 050/051



prepacked and ready for use



cured within 30 min.

MMA resins have been used for road repairs, as mortar to fill holes fast and for linings since many years. We developed a new combination between MMA und PU. This new type of hybrid resin called PUMMA 800 combines the fast curing advantage of MMA resins together with the flexibility that PU resins can provide also at low temperatures. PUMMA resins are used in areas where a wide range of temperatures between summer and winter / day and night are expected.



click to see the video.

Plastifloor® 800 Mortar made with mortar mix C2 for high abrasive and high elastic mortars are used as bridge deck overlays and to repair holes. The mortar is also very effective to use if You like to install metal profiles or joint profile systems. Because of its elasticity it absorbs vibrations better than concrete based mortars. The result is a longer lasting joint construction, pothole repair or edge repair. Plastifloor® 800 mortar can be delivered in 10 kg and 25 kg pails, or 180 kg drums. The mortar aggregate C2 will be delivered in 25 kg paper bags. Mixture: 1:4

For further details pls. check our website: [www.plasti-chemie.de](http://www.plasti-chemie.de)

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**System:**

**Plastifloor® 800 the PUMMA hybrid coating system with waterproofing layer for parking decks  
easy to install, 2h after installation You can drive on it!**



**2<sup>nd</sup> Sealer**  
**Plastifloor® 528**  
**0,4 kg/m<sup>2</sup>**  
**100 ft<sup>2</sup>/gal**  
**grey**

**1<sup>st</sup> Sealer**  
**Plastifloor® 528**  
**0,4 kg/m<sup>2</sup>**  
**100 ft<sup>2</sup>/gal**  
**grey**

**Coating**  
**Plastifloor® 800**  
**1,2 kg/m<sup>2</sup>; 1:1 with s/l filler**  
**30 ft<sup>2</sup>/gal; 1:1 with s/l filler**  
**broadcast to excess 0,8 lbs/ft<sup>2</sup>**  
**natural quartz**

**Membrane**  
**Plastifloor® 800**  
**1,2 kg/m<sup>2</sup>; 1:1 w. PET s/l filler**  
**30 ft<sup>2</sup>/gal; 1:1 w. PET s/l filler**  
**slight broadcast**  
**natural quartz**

**Primer**  
**Plastifloor® 112**  
**0,5 kg/m<sup>2</sup>**  
**75 – 100 ft<sup>2</sup>/gal**  
**slight broadcast**  
**natural quartz**

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## **Plastifloor® waterproofing traffic coating system pedestrian system ready for use only 1 hour after application**

### **Product Description**

Plastifloor 800® with PUMMA technology is designed to have tenacious adhesion and extreme abrasion resistance. It can be walked on in one hour, which will minimize operation disruption. Plastifloor® 800 is a waterproof traffic deck coating system that utilizes polyurethane-methacrylate (PUMMA) technology. Plastifloor®800 is composed of a primer (Plastifloor® Primer 112), a base coat (Plastifloor® 800), and a top coat (Plastifloor® 528). All system components are cured using Plastifloor® hardener 50 W.

**Plastifloor® 112 Primer** is a methyl-methacrylate (MMA), two- component primer for porous and non-porous substrates, in case You expect a damp substrate use Additive 113 -> see data sheet, for metal substrate or tiles use adhesive agent -> data sheet and for asphalt/bitumen substrate use Additive B -> see data sheet.

**Plastifloor® 800** is a modified polyurethane-methacrylate (PUMMA) base coat. Plastifloor® 800 bonds firmly to Plastifloor® 112 Primer. It retains its integrity even if substrate movement causes hair-line cracks of up to 1/16" (1.5 mm). If cut or damaged, Plastifloor® 800 will prevent water migration between it and its substrate. To adjust flexibility and strength we offer two different filler powders. Plastifloor® s/l PET filler contains a flexible plastic granulate that increase the elongation of the flooring layer. We recommend it for intermediate coatings and waterproofing systems. Plastifloor® s/l filler is a mineral filler system that combines the flexibility of Plastifloor® 800 resin and high impact resistance.

**Plastifloor® 528** is a methyl-methacrylate (MMA) top coat. The Interlaminar adhesion to Plastifloor® 800 T is exceedingly strong. The top coat affords excellent abrasion resistance, UV stability and chemical resistance to complete the Plastifloor® 800 waterproofing system.

### **Basic Uses**

Plastifloor® 800 is a cold-applied traffic deck coating system designed for waterproofing concrete slabs and protecting occupied areas underneath from water damage. Additionally, the system will protect the concrete from damaging effects of chloride, deicing salts, chemicals, gasoline, oils and anti-freeze. The Pedestrian System is ideal for stadiums, balconies, and pool decks.

### **Features and Benefits**

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- Polyurethane-methacrylate (PUMMA) technology delivers extreme durability, while maintaining its crack-bridging characteristics.
- Rapid set-up times allow for quick overall installation, as well as the ability to open up to foot traffic one hour later.
- Can be applied below -20 °C/-4°F, which allows for continuation of projects during colder months.
- Initiator adjustments allow for 30 to 45 min cure time between applications, even at temperatures below freezing.
- Compatible with Plastifloor® sealants and coatings, which is essential for tie-ins, detailing and penetrations.
- Extremely forgiving application allows users to apply additional coats long after the previous coat has cured.
- Unique chemistry allows for easy repair.

## Packaging

Plastifloor® 112 Primer	10, 25 kg pails 180 kg drums
Plastifloor® 800 base coat	10, 25 kg pails 180 kg drums
Plastifloor® 528 sealer	10, 25 kg pails 180 kg drums

Plastifloor® hardener 50W	25 kg box
Plastifloor® hardener/M	25 kg box

Plastifloor® s/l and s/l PET	25 kg bags
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## Standard Colors

Plastifloor® 528 is available in all Plastifloor standard RAL colors.

## Installation

Concrete shall be water-cured and in place for at least 28 days, on green concrete install Plastistone® 127 moisture barrier first. -> data sheet. Concrete finish shall be a light steel trowel followed by a fine-hair broom, or equivalent finish. New or existing slabs must be dry, clean, sound and free of all contaminants which may interfere with adhesion or proper curing. Chemical and/or mechanical surface preparation with milling or shootblasting is required.

Please refer to the Plastifloor® 800 application Instructions for complete application details. The techniques involved may require modification to adjust to job-site specific conditions. Consult your Plasti-Chemie Sales Representative or visit Plasti-Chemie's Technical Service for site conditions and requirements.

## Limitations

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- Use with adequate ventilation.
- Do not work in direct sunlight

**Availability**

www.plasti-chemie.de

Property	Test Method	Base Coat 800	Plastifloor®	Top Coat 528	Plastifloor®
Solids (by weight)	ASTM D1353	100%		100%	
Drying Time	ASTM D1640	80 mil film		17 mil film	
@75 °F, 50% RH		1 hr		1 hr	
Flash Point	Set-A-Flash	53 °F		53 °F	
Hardness (Shore D)	ASTM D2240	35		55	
Tensile Strength	ASTM D638 @ 75 °F	1600 psi		980 psi	
Elongation	ASTM D638	400%		125%	
Abrasion Resistance (1000 cycles)	ASTM D4060	N/A		51 mgm	
Weathering	ASTM D822	N/A		No effect	
Resistance	Weatherometer				
	350 hr				
Crack-bridging	ASTM C1305	Passes		N/A	

**Warranty**

All Purchaser complaints, particularly notices of defects, must be submitted to us in writing without delay,

12/02/2019

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but not later than within ten (10) days from reception of the goods or in the case of latent defects within ten (10) days from the discovery of such defects. In the event of justified claims arising from the quality of the delivered goods, we reserve the right, solely at our discretion, to either replace or repair the goods or will take them back while either totally or partially refunding the Purchaser. If our repair fails to remedy the defects or the replacement goods are defective, the Purchaser shall be entitled at its discretion, to either adjust the purchase price or withdraw from the contract.

In the event of delivery shortages, we shall, if reasonable, cover the deficiency or issue a credit for the appropriate amount. In case of delay or impossibility of performance, our liability is limited to the invoice value of the goods which have not been delivered on time, except in case of intentional misconduct or gross negligence on our part, or on the part of our legal representatives or on the part of those employed by us in the performance of our obligations. In case of positive violation of a contractual duty (e.g. supply failure, too expensive shipping, etc.), violations of pre-contractual obligations and illicit actions, we are only held liable if we, our legal representatives or agents have acted intentionally or through gross negligence. This does not apply to the extent that we are liable for personal injury or damage to private property according to the Product Liability Act or other reasons. Purchaser shall verify the correctness and completeness of statements of account, especially balance confirmations, as well as notes and settlements of accounts. Objections to statements of account shall be in writing and shall be sent within one month of receipt of the subject statement. Any other objections shall be made without delay. Failure to make timely objections constitutes approval. In cases of legitimate legal objections, the Purchaser's statutory rights are unaffected by expiration of this term.

Data concerning our products and devices as well as concerning our data and procedures are based on an extensive research work and an application technology experience. We obtain these results, with which we do not take over adhesion going beyond the respective single contract, in word and writing after best knowledge, reserve ourselves we however technical changes in the course of the product development. Beyond that our application technology service stands when desired for large consultation as well as for co-operation with the solution manufacturing and application technology problems for order. That does not relieve the user however to examine our data and recommendations before their use responsible for the own use. That applies - particularly for deliveries to foreign markets - also regarding the keeping of patent rights third as well as for applications and procedures, which are not expressly in writing indicated by us. The case of loss our adhesion is limited to indemnifications of same extent, as they plan our general terms of delivery and sales with lack of quality.