

Plastipur®

MT Polyurethane concrete flooring
Self-smoothing, matt finish

Product description Plastipur® MT is a self-smoothing polyurethane resin floor screed. It has a smooth matt finish ensuring maximum ease of cleaning. **Plastipur®** MT is a medium duty resin screed with medium temperature performance, good chemical resistance and fast application: It will provide a long-term durable and hardwearing floor surface ideal for dry production and processing environments.

Key facts:

- Long-term durable
- Fast application/quick cure
- Good chemical resistance
- Easy to clean matt finish
- Cost effective
- Non-tainting

Performance data:

Compressive Strength:	46.0 N/mm ²
Flexural Strength:	21.0 N/mm ²
Dynamic E-Modulus:	14000N/mm ²
Tensile Strength:	7.0 N/mm ²
E-Modulus in compression:	1100 N/mm ²
Coefficient of Thermal Expansion (ASTM C531 part 4.05):	oC-1 3.6x10 ⁻⁵
Temperature Resistance: At 3mm:	-10°C to 60°C, at 5mm: -10°C to 80°C
Flash Steam Cleanable:	Yes
Water Permeability:	Zero
Slip Resistance: (Pendulum Slip Test Method)	Surface Roughness: 8.0 Rtm
Dynamic Co-Efficient of Friction:	Dry: 72, Wet: 26

All figures are measured and expressed under laboratory conditions: Actual performance may vary from the above values depending upon site conditions.

Physical properties:

Primer(s):	1 coat Plastipur® 427 primer or Plastistone primer
System:	1 application Plastipur® MT
Sealer Coat(s):	None
Optional Variations:	None

System Details:

Finish:	Smooth, matt
Thickness:	3mm to 5mm

Chemical Resistance:

Highly resistant to a wide range of chemicals including organic acids, alkalis, oils and certain solvents. For full details consult the Plasti-Chemie technical Dept.

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Curing Time:

A completed resin floor can go into service after the following minimum cure period at 18 °C and above:

Light Traffic:	16 hours
Heavy Traffic:	48 hours

Shelf Life and Storage:

The product should be kept in its original unopened container until use. The product should be stored in weather tight conditions at temperatures between 10 °C and 25 °C, avoiding direct sunlight. Under these conditions this product has a shelf life of up to 6 months.

Other Products:

The following products from Plasti-Chemie International GmbH are recommended for use with **Plastipur®** MT: **Plastipur®** WR resin render screed

Standard Colour Range:

Red	Buff	Terracotta
Green	Grey	Cream

As screen and print settings are beyond our control, these colours are an indication only. Please request product samples for accurate colour information of any of these six standard colours.

Application:

- Dry Processing
- Warehousing and Storage
- Dry Assembly and Packing
- Pharmaceutical Production
- Chemical Storage
- Engineering Facilities

Application Temperature:

Correct temperature is critical to the successful application of **Plastipur®** MT and air temperatures should be maintained between 18°C and 23°C during the application and curing period of this product. If temperatures fall below 18°C the application could become prone to installation difficulties. The application area should be heated to temperatures of between 18°C and 23°C for up to 24 hours prior to application to allow the ambient and substrate temperatures to regulate before the application commences. Materials should also be kept in a warm area of 15°C minimum temperature for 12 hours prior to application. De-humidifiers must be used where high humidity conditions prevail. Ensure adequate ventilation during application.

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Priming:

The dry, prepared, dust-free substrate should receive a roller applied tack coat of **Plastipur®** or Plastistone® Fastrac primer. More uneven substrates should receive a 1mm scratch prime coat instead. After a minimum of 8 hours curing time at 18 °C the **Plastipur®** MT can be applied

System Application:

The **Plastipur®** MT should be mixed and poured onto the substrate then trowelled to a thickness of between 3mm and 5mm. A spike roller should be passed through the trowelled material to assist flow and release any trapped air.

Joints:

All known expansion joints should be followed through the resin floor finish using a PU Jointing Mastic. If concrete movement or cracking takes place after application then reflective cracking of the topping may occur.

Note: The texture of **Plastipur®** MT on the finished floor surface may appear banded or slightly variable. This is a natural, visual aspect of the system, which can also be influenced by atmospheric conditions and is not defective in anyway. Polyurethane systems have limited colour stability which can result in discoloration of the floor over a period of time upon exposure to UV light. Our standard colour range has been carefully chosen to provide a colour range limiting the extent of discolouration.

In-Service Maintenance:

Good housekeeping and regular cleaning can considerably extend the service life of a resin screed floor and will enhance the floor's appearance and reduce soiling tendencies. Suitable cleaning methods for this product include: Rotary scrubbing machine or warm water washing (up to 60 °C) with suitable detergent products. Flash steam clean is suitable on an occasional basis.

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. That does not relieve the user however to examine our data and recommendations before their use responsible for the own use. That applies also regarding the keeping of patent rights third as well as for applications and procedures, which are not expressly in writing indicated by us.