

Plastipur® (USA)

HT120W Polyurethane concrete flooring
High performance, anti-slip polyurethane screeds

Product description Plastipur® HT120W is part of our HT Range of heavy-duty, high performance, anti-slip polyurethane screeds. Plastipur® HT120W is an independently tested slip-resistant screed, designed to provide safety under foot and cleanability. Plastipur® HT120W also provides superior all-round performance with built-in chemical resistance, wear, impact and abrasion resistance, and thermal shock resistance.

Key facts:

- Anti-slip surface
- Fast curing, single application
- Excellent chemical resistance
- Exceptional abrasion and impact resistance
- Temperature resistant at temperatures from -13°F to 248°C at ½" thickness
- Non-tainting
- Optional Plastipur biocide additive
- Excellent substrate adhesion

Performance data:

Compressive Strength:	58.0 N/mm ²
Compressive Modulus:	9850.0 N/mm ²
Flexural Strength:	14.0 N/mm ²
Flexural Modulus:	2400.0 N/mm ²
Tensile Strength:	6.0 N/mm ²
Tensile Modulus:	450.3 N/mm ²
Temperature Resistance:	Constant -13°F to 212°F. Occasional spillages of up to 248°F at ½" thickness
Abrasion Resistance:	BS8204-2 Class AR1: Maximum wear depth 0.03mm
Flash Steam Cleanable:	Yes
Water Permeability:	Zero
Slip Resistance:	Surface Roughness: 18.6R _{tm} (19.3R _{tm} if backrolled)

(Pendulum Slip Test Method)

Dynamic Co-Efficient of Friction: Dry: 60, Wet: 34 (Dry: 67, Wet: 37 if back rolled)

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

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Physical properties:

Primer(s): 1 coat **Plastipur® 427** Primer or Plastistone Primer
System: 1 application **Plastipur®** HT120W
Sealer Coat(s): None as standard
Optional Variations: **Plastipur®** SLR sealer coat, back rolled finish,
Plastipur biocide additive

System Details:

Finish: White speckled, resin rich matt, anti-slip
Thickness: 1/4 " to 1/2 "

Chemical Resistance:

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

Curing Time:

A completed resin floor can go into service after the following minimum cure periods at 64°F 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 50 °F and 78 °F, avoiding direct sunlight. Under these conditions this product has a shelf life of up to 6 months.

Other Products:

The following products are recommended for use with **Plastipur®** HT120W:
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:

Food Processing inc. Bakeries
Brewing and Beverage
Dairy Processing
Pharmaceutical
Chemical Processing and Storage
Engineering
Aerospace

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Application Temperature:

Correct temperature is critical to the successful application of **Plastipur®** HT120W and air temperatures should be maintained between 59°F and 78°F during the application and curing period of this product. We also strongly recommend that the application area is heated to temperatures of between 59°F and 87°F 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 53°F minimum temperature for 12 hours prior to application. De-humidifiers must be used where high humidity conditions prevail. Ensure adequate ventilation during application.

Priming:

The dry, prepared, dust-free substrate should receive a roller applied tack coat of **Plastipur®** primer. After approximately 30 minutes tack off time, the **Plastipur®** HT120W can be applied. Plastistone® Fastrac primer may also be used on semi-cured, new or damp concrete – see separate data sheet for details.

System Application:

The **Plastipur®** HT120W should be mixed and trowel applied to a thickness of between 6mm and 9mm.

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®** HT120W 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 discoloration.

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 hot water washing (up to 176°F) with suitable detergent products. Flash steam clean is suitable on a regular 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.