

Plastipur® (USA)

HT110W General-purpose polyurethane resin screed
with relative flexibility

Product description

Plastipur® HT110W is a general-purpose polyurethane resin screed offering excellent abrasion resistance, chemical resistance and thermal shock resistance. **Plastipur® HT110W** maintains a level of relative flexibility after cure, and provides a fine to medium anti-slip profile as a trowel finished screed. The system can be completed with an optional glazed sealer coat to aid cleanability. **Plastipur® HT110W** is also particularly suitable as an infill material. Bulked out with pea-gravel, this system can be used to infill voids, level out spaulded substrates and as a general fast cure 'concrete'.

Key facts:

- Anti-slip surface
- Fast curing, single application
- Excellent chemical resistance
- Excellent impact and wear resistance
- Excellent temperature resistance
- Easy to clean
- Optional Plastipur biocide additive

Performance data:

Compressive Strength:	53 N/mm ²
Compressive Modulus:	9850 N/mm ²
Flexural Strength:	17 N/mm ²
Flexural Modulus:	2400 N/mm ²
Tensile Strength:	5.5 N/mm ²
Tensile Modulus:	450.3 N/mm ²
Temperature Resistance:	Constant -13°F to 185°F Occasional spillages of up to 248 °F at ½" thickness
Flash Steam Cleanable:	Yes
Water Permeability:	Zero
Slip Resistance Plastipur® HT110W: (Pendulum Slip Test Method)	Surface Roughness: 27.7 Rtm Dynamic Co-Efficient of Friction: Dry: 109, Wet: 32

When sealed with **Plastipur®** SC2: Surface Roughness: 26.0Rtm
Dynamic Co-Efficient of Friction: Dry: 99,
Wet: 26

When sealed with **Plastipur®** MB12: Surface Roughness: 19.7Rtm
Dynamic Co-Efficient of Friction: Dry:
115, Wet: 25

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®** primer
System: 1 application **Plastipur®** HT110W
Sealer Coat(s): None
Optional Variations: Plastipur Biocide additive, glazed sealer coats
(**Plastipur®** SC2 or MB12)

System details:

Finish: Resin rich anti-slip, optional matt or gloss sealer
Thickness: ¼" to ½"
Colour: Grey, Red, Green, Buff, Cream or Terracotta

Chemical Resistance:

Resistant to a wide range of chemicals including sugars, alkalis and most acids (organic and inorganic). For full details consult the Plasti-Chemie technical Dept.

Curing Time:

Floor can go into service after the following minimum cure period 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®** HT110W:

Plastipur® WR resin render screed

Application:

Food Processing
Brewing and Beverage
Dairy Processing
Pharmaceutical
Chemical Processing and Storage
As a high strength, fast cure concrete alternative

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Application Temperature:

Correct temperature is critical to the successful application of **Plastipur®** HT110W 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 78°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 between one and three hours tack off time the **Plastipur®** HT110W can be applied.

System Application:

The **Plastipur®** HT110W should be mixed and trowel applied to a thickness of between ¼" to ½".

Plastipur® HT110W Infill Grade:

Plastipur® HT110W can be modified to create a 'resin concrete' by addition of between 11 lbs and 26 lbs of washed, dried, single-sized 3 mesh pea gravel. This bulked out formulation retains a high level of strength; greater than most concretes, whilst offering next or, in some circumstances, same day overlaying. The inbuilt flexibility of the system reduces the risk of shrinkage during cure and thus avoids reflective cracking in the overlaid finish screed

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®** HT110W 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.

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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 185°F) with suitable detergent products – see Plastipur® cleaning Guide for further details. Flash steam cleaning 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.