

# US Formliner Platinum

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Product X3743

Edition 11/17

castable polyurethane elastomer

## PROPERTIES

US Formliner Platinum is a solvent-free, rubbery-elastic, liquid, two-component polyurethane, cold-curing, almost shrinkage-free, after curing sliceable and grindable. It shows high chemical resistance against aqueous alkali, especially concrete. Its standard color is gray.

## APPLICATIONS

US Formliner Platinum is used for manufacturing flexible models, fittings, formliners and molds ensuring exact reproduction of surface contours and textures. Easy stripping of castings is enabled by using suitable US Formliner release agents. US Formliner Platinum is particularly suitable for making formliners for the manufacture of structured exposed concrete.

## TECHNICAL DATA

property	value	method
hardener:	for US Formliner Platinum, Silver	
mixing ratio (base : hardener):	10 : 1	(according to weight)
workable temperature:	+15 °C – +30 °C	
viscosity of base component:	2800 mPa·s	ISO 2555
pot life (200-g-mixture at +21 °C):	approx. 15 – 20 min	
earliest demolding (at +21 °C):	24 h	
full chemical and mechanical loading after:	7 – 10 days	
density:	1,40 g/cm <sup>3</sup>	
hardness:	50 Shore A	DIN 53505
tensile strength:	1,7 N/mm <sup>2</sup>	DIN 53504-S2
elongation at break:	500 %	DIN 53504-S2
tear resistance:	10 N/mm	ASTM D 624-B
heat resistance (dry heat):	+65 °C	
heat resistance (under concrete):	+60 °C	
color:	gray	

These data are typical guide values. They are not destined for the generation of specifications.

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## **SURFACE PREPARATION**

The model surface must be dry and clean. Absorbing surfaces should be sealed to facilitate the subsequent demolding and to avoid inaccurate curing. For this, US Formliner PUR-Sealant can be used if the surface is solvent-resistant. Afterwards, 2 – 3 layers of US Formliner Mould Wax are applied. Each layer has to dry completely.

When applying several layers of elastomer, the preceding layer should be still slightly sticky but sufficiently cured to bear the load of the following application. If the surface is completely cured, it must be roughened by grinding before further material can be applied.

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## **PROCESSING**

Each contact with moisture must strictly be avoided. Before processing, the base component has to be stirred up thoroughly. Add the hardener (B) to the base component (A) and mix them homogeneously. Transfer the mixture into a second receptacle and stir it up again. Thereby the incorporation of larger amounts of air should be avoided. Once mixed the processing of the material must be completed within the pot life.

## **METHOD OF PROCESSING**

Full cast or front cast.

## **CLEANING OF EQUIPMENT**

For the cleaning of the tools and the equipment, use dry, absorbing cloths, if necessary US Formliner EK-PU-Thinner in addition. Immersion in solvents is not sufficient.

## **SPECIAL REMARKS**

To ensure dimensional accuracy and maximum life period, molds made of US Formliner Platinum are preferably stored in their supporting mold under admittance of air. Prolonged compression may lead to irreversible deformation. The molds must be protected against UV irradiation and direct insolation.

## **PACKAGING SIZES**

pair of drums: 297 kg.

The hardener is supplied in a separate can.

## **STORAGE**

Store in a dry place at room temperature. US Formliner Platinum is storable for 6 months from delivery when kept in the closed original packaging at about 18 °C. Opened drums must be closed airtight right after use.

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## SAFETY

Protect skin and eyes from material splashes. Provide sufficient ventilation in the working place. Please consult the relevant safety data sheet and attend to the indications on the label of the package regarding the Dangerous Goods Regulation.

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US Formliner Platinum exclusively consists of components complying with all applicable rules or orders under TSCA. It is free from mercury compounds.

This pamphlet is intended solely as an application directive. It does not claim to be binding and valid for all modes of application. A preliminary test under operation conditions is highly recommended.

This pamphlet replaces all previously published pamphlets concerning US Formliner Platinum, stating them as no longer being valid.

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