

US Formliner Silver

US Formliner Silver

Product X3191

Edition 11/17

castable polyurethane elastomer

PROPERTIES

US Formliner Silver 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 colour is dark gray.

APPLICATIONS

US Formliner Silver 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 Silver 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:	5600 mPa·s	ISO 2555
pot life (200-g-mixture at +21 °C):	ca. 10 – 15 min	
earliest demolding (at +21 °C):	24 h	
full chemical and mechanical loading after:	7 – 10 days	
density:	1,5 g/cm ³	
hardness:	65 Shore A	DIN 53505
tensile strength:	2,4 N/mm ²	DIN 53504-S2
elongation at break:	450 %	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:	dark gray	

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

US Formliner, Inc.

370 Commerce Blvd.

USA Athens, GA 30606

Tel (706) 549-6787

Fax (706) 355-9199

info@USFormliner.com

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.

US Formliner Silver
Product X3191
Edition 11/17

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 Silver 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

double drums: 297 kg.

The hardener is supplied in a separate can.

STORAGE

Store in a dry place at room temperature. US Formliner Silver 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.

US Formliner, Inc.
370 Commerce Blvd.
USA Athens, GA 30606
Tel (706) 549-6787
Fax (706) 355-9199
info@USFormliner.com

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.

US Formliner Silver

Product X3191

Edition 11/17

US Formliner Silver 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 Silver, stating them as no longer being valid.

US Formliner, Inc.

370 Commerce Blvd.

USA Athens, GA 30606

Tel (706) 549-6787

Fax (706) 355-9199

info@USFormliner.com