

## PRODUCT DATA SHEET

# Monoprufe® SX 700

Hot Spray Applied High performance Polyurea Waterproofing Membrane

### DESCRIPTION

Monoprufe® SX 700 is a very high performance elastic fast curing waterproofing system with exceptional strength and durability. Based on 2 component pure polyurea resins it is intended for application using specialist heated spray equipment with mixing occurring at the nozzle. Monoprufe® SX 700 sets in seconds to immediately form a weather and UV resistant membrane. It is elastic, has exceptional tear, tensile and bond strength and will adhere strongly to most sound and dry substrates.

### USES

Monoprufe® SX 700 may only be used by experienced professionals.

- Ideal for exposed long term zero maintenance areas such as roof top installations
- Internal areas where waterproofing, chemical resistance and easy cleaning are important
- Trafficable
- Internal and external use
- Mining
- Tank linings
- Ship hold linings
- Ship freezer linings
- Truck beds
- Secondary containment holds
- Swimming pool linings
- Roof decks
- Balconies

### CHARACTERISTICS / ADVANTAGES

- Effectively instantaneous performance
- Excellent toughness & durability
- Excellent waterproofing
- Excellent bond strength
- Highly UV resistant and elastic
- Suitable for constant immersion
- Highly resistant to most common household, gardening and industrial chemicals
- Solvent free & low VOC

## PRODUCT INFORMATION

<b>Packaging</b>	42.5 kg per pack (22.5 kg Part A & 20 kg Part B) 425 kg per pack (225 kg Part A & 200 kg Part B)
<b>Shelf Life</b>	12 months from the date of production.
<b>Storage Conditions</b>	Stored properly in undamaged and unopened original sealed packaging in the dry conditions. Protect from direct sunlight and frost.
<b>Solid Content</b>	100 %

## TECHNICAL INFORMATION

<b>Shore A Hardness</b>	76	(ASTM D2240-05)
<b>Abrasion Resistance</b>	< 0.1 g	(ASTM D4060-07) (H-18, 1000 g, 1000 cycles)
<b>Tensile Strength</b>	Approx. 15 MPa	(ASTM D412-06a)
<b>Elongation at Break</b>	Approx. 500 %	(ASTM D412-06a)
<b>Tensile Adhesion Strength</b>	2 MPa	(ASTM D4541)
<b>Tear Strength</b>	Approx. 60 N/mm	(ASTM D624-00)

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	1 to 1 by volume
<b>Consumption</b>	Approximately 1 to 1.1 kg/m <sup>2</sup> /mm thick. The consumption rate will be varied with surface porosity and texture.
<b>Layer Thickness</b>	1.0 to 3.0 mm thick
<b>Curing Time</b>	Curing time will depend on the ambient conditions but the surface should be left undisturbed for 12 hours prior to full service of the waterproofing membrane.

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

### VOC DATA

18 g/litre when tested in accordance with USEPA Method 24.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Monoprufe® SX 700 must be applied onto sound concrete, screed or similarly supportive ceramic substrate. The substrate should be dry, clean, free of oil, grease and other removable contaminants.

Prime the surfaces with Monoprufe® Primer X and broadcasting sand onto tacky primer to improve the bonding. Allow the primer to dry for 4–6 hours.

## APPLICATION

### Spray Application

Monoprufe® SX 700 must be mixed and applied with an airless high performance heated spraying system similar to the Graco equipment. Well mixed the Part B resin first to avoid segregation. The resins should be heated to 60–80 degree C and the minimum application pressure should be 2000 psi in order to ensure satisfactory mixing and spraying. The coverage rate is 1 to 1.1 kg/m<sup>2</sup>/mm thick approximately. The overlapping areas in the day joints should be protected with masking tape. Clean the overlapping surfaces with suitable solvent such as alcohol, acetone, MEK, BAC, etc., to just quickly wipe off any dirty, foreign objects before re-coating. If the overlapping areas are left many days and become very dirty, clean the surfaces first and then apply Monoprufe® Primer X and allow to dry for 4–6 hours before re-coating.

### Top Coat

Monoprufe® SX 700 may have some yellowing effects. For aesthetic reason, it can be overcoated with Monoprufe® SX Colour Top Coat to achieve a uniform colour surface. Sand can also be broadcasted onto tacky top coat to improve the slip resistance.

## CLEANING OF TOOLS

Tools and equipment should be washed with solvent after use. Painted surfaces, metal and glass should be protected during application.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The

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