Version 4 28.01.2020

ARMOUR TRUCK
POLYUREA ELASTOMER

PRODUCT DESCRIPTION

ARMOUR - TRUCK R is a resin system which when combined with Armour Flex H will produce a resilient, durable polyurea elastomer specifically designed for easy application with good physical properties.
It is typically used as a liner to protect truck beds.

ARMOUR - TRUCK is available in a range of colours as indicated, others by arrangement:
Black
Dark Grey
Neutral

ADVANTAGES

- Amazing durability
- No loss of load space area
- Does not split or crack like plastic drop-in liners and water cannot get under it
- Easy clean
- Great impact resistance
- Range of colours
- Any thickness required
- Sound deadening qualities
- Smart factory finish
- Very grippy, slip resistant

PROCESSING

ARMOUR - TRUCK is processed through specially designed dispensing equipment having accurate metering pumps for the two components. The components should be maintained at 65 – 70°C and mixed and sprayed by the appropriate equipment, on which Isothane technical staff can advise. Ambient conditions should be suitable for PU processing, with particular emphasis on humidity. Armour Truck should not be sprayed if the relative humidity is above 90% or if the substrate temperature is less than 3°C above the local dew point.

STORAGE, HANDLING AND PERSONAL PROTECTION

- ARMOUR – TRUCK Resin should be stored in dry conditions at a temperature 20 - 25°C.
- ARMOUR – FLEX H should be stored in dry conditions at a temperature 20 - 25°C.
- ARMOUR - TRUCK Resin has a shelf life of 6 months.
- ARMOUR - FLEX H has a shelf life of 6 months if stored at 20 - 25°C.
- Opened, part used containers must be resealed immediately after use.

The recommendations in our Safety Data Sheet for this product must be followed at all times. More general information is included in our publication “Guide to the Safe Handling of Polyurethane Chemicals” and in the following Technical Data Sheets which are available on request:-

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- Decontamination of Isocyanates using Isothane Decontaminant.

ADDITIONAL INFORMATION

ARMOUR - TRUCK R resin may require some agitation before use, in order to effect re-dispersion of any pigment. Recirculation of both components from the barrel, through the machine's heater blocks and back to the barrel, is recommended when using standard 2:1 or 1:1 transfer pumps, in order to prime the materials and machine. 30 minutes of recirculation to warm the components to around 40°C will be adequate.

TYPICAL PROPERTIES OF ARMOUR-TRUCK

	Armour-Truck Resin	Armour-Flex H
Appearance	Neutral	Amber liquid
Viscosity @ 25°C, cPs	600 – 1,200	700 - 1100
Specific Gravity @ 25°C	1.00 – 1.03	1.10 – 1.13
Water Content	< 0.1%	N/A

Mixing Ratio: 100 parts Armour-Truck R Resin : 100 parts Armour-Flex H (by volume, mix tolerance ±1%)
Process: Spray

ARMOUR-TRUCK PROPERTIES

	UNITS	TYPICAL VALUES	TEST METHOD
Shore Hardness	°D	45	ASTM D2240
Tensile Strength	MPa	18	ASTM 638
Elongation	%	350	ASTM 638
Tear Strength	KN/m	65	ASTM D624, Die C

REACTION PROFILE

Gel Time (sprayed @ 70°C)	3 - 5 secs
Touch Dry	< 15 secs
Cure	80% of maximum tensile strength is attained within 2 hrs at 20°C






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