

## ARMOUR - COAT

### UV Stable Aliphatic Polyurea Elastomer

#### Product Description

**ARMOUR - COAT R** is a **pure polyurea** 100% solids, zero VOC resin system, which when combined with Armour - Coat H will produce a resilient, chemical resistant elastomer. It is fast curing ( 20 - 25 sec tack free time ) and can be used at temperatures down to -20°C. It is formulated to be UV stable / colour fast.

**ARMOUR - COAT** is available in a range of colours as indicated, others by arrangement:

Black

Dark Grey

Neutral

#### Typical Applications

Protective coating where it is required to be UV color stable  
General purpose waterproofing  
Secondary containment  
Pedestrian and vehicles flooring  
New internal and external industrial flooring  
Restoring old internal and external industrial flooring  
Restoring old asphalt layer without removal

#### Processing

**ARMOUR - COAT** is processed through specially designed dispensing equipment having accurate metering pumps for the two components. The components should be maintained at 40 - 60°C and mixed and sprayed by the appropriate gun, on which Isothane technical staff can advise. Cured elastomer to be repaired should be abraded and traces of dust removed. Maximum adhesion will be obtained if the surfaces to be repaired are heated to a minimum of 35°C. Some surfaces will require the use of an Isothane primer.

To bond **ARMOUR - COAT** to the substrate, the substrate must be dry and its temperature at least 3°C above the local dew point. **ARMOUR - COAT** is hydrophobic so unaffected by damp substrates if it is meant to be non - bonded or demoulded.



Isothane Limited, Newhouse Road  
Huncoat Business Park, Accrington  
Lancashire BB5 6NT UK  
Telephone: + 44 (0) 1254 872555  
Facsimile: + 44 (0) 1254 871522  
Order Fax Line: +44 (0) 1254 398295  
Email: info@isothane.com  
Website: www.isothane.com  
Registration No: 2975728



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### Replication and Moulding Polyurea Elastomer

#### Storage, Handling and Personal Protection

- **ARMOUR - COAT** should be stored in dry conditions at a temperature 10 - 25°C.
- **ARMOUR - COAT R** Resin and Armour - Coat H have a shelf life of 6 months if stored at 10 - 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 "A Guide to the Safe Handling of Polyurethane Chemicals" and in the following Technical Data Sheets which are available on request:-

- Decontamination of Isocyanates using Isothane Decontaminant.

#### Additional Information

**ARMOUR - COAT R** resin will require some agitation before use. Subsequently, 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.

Post Curing: articles need not be post cured.

<u>Typical Properties of</u> <u>Armour - Coat</u>	<u>Armour - Coat R Resin</u>	<u>Armour - Coat H</u>
Appearance	Liquid - varying colours	Clear Liquid
Viscosity 25°C	400 - 600 cps	600 - 1100 cps
Specific Gravity @ 25°C	1.0 - 1.1	1.1 - 1.2
Water Content	<0.01%	N/A
Mixing Ratio:	100 parts Armour - Coat R Resin: 100 parts Armour - Coat H (by volume, mix tolerance $\pm 1\%$ )	
Process:	Spray	

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<u>Armour - Coat Properties</u>	<u>Units</u>	<u>Typical Values</u>	<u>Test Method</u>
Shore Hardness	° A	95 - 98	ASTM D2240
Tensile Strength	MPa	18 - 20	ASTM D638
Elongation	%	550 - 600	ASTM D638
Abrasion Resistance	mg	200 - 270	ASTM D4060

### Reaction Profile

Gel Time	8 - 10 secs
Walk On	80 - 90 secs
Vehicles After	8 - 10 hrs
Recoat Within	2 - 3 hrs



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