

ARMOUR - ROCK

Reinforcement and Moulding Polyurea Elastomer,
Class 1 Fire Resistant to UNI 9174

Product Description

ARMOUR - ROCK R is a polyurea based 100% solids, zero VOC resin system, which when combined with Armour - Rock H will produce a resilient, highly impact resistant hardcoat. It is fast curing (1 min) and can be used at temperatures down to -15°C.

ARMOUR - ROCK is available in a range of colours as indicated:

White	Black	Red
Yellow	Green	Blue
Orange	Grey	Brown

Typical Applications

- Protection, reinforcing, moulding; horizontal and vertical surfaces
- Direct application on polystyrene and PU foam
- Direct in mould application for reproduction of objects - mould release agent is necessary

Processing

ARMOUR - ROCK 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 - ROCK** to the substrate, the substrate must be dry and its temperature at least 3°C above the local dew point.



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Certificate No. FM 21549



INVESTOR IN PEOPLE



Certificate No. EMS 68443



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Storage, Handling and Personal Protection

- **ARMOUR - ROCK** should be stored in dry conditions at a temperature 10 - 25° C.
- **ARMOUR - ROCK R** Resin and Armour - Rock H have a shelf life of 12 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 - ROCK R resin may require some agitation before use, in order to effect redispersion 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.

Post Curing: articles need not be post cured.

<u>Typical Properties of</u> <u>Armour - Rock</u>	<u>Armour - Rock R Resin</u>	<u>Armour - Rock H</u>
Appearance	Liquid - varying colours	Brown Liquid
Viscosity 25° C	700 cps	400 cps
Specific Gravity @ 25° C	1.15 - 1.18	1.16 - 1.22
Water Content	<0.01%	N/A
Mixing Ratio:	100 parts Armour - Rock R Resin: 100 parts Armour - Rock H (by volume, mix tolerance $\pm 1\%$)	
Process:	Spray	

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Armour - Rock Properties

<u>Units</u>	<u>Typical Values</u>	<u>Test Method</u>
Shore Hardness	° D	70
Tensile Strength	MPa	18
Elongation	%	18
Taber Abrasion	mg	230

Reaction Profile

Gel Time	8 - 10 secs
Tack Free	60 - 70 secs
Demould After	5 - 15 mins
Recoat Within	4 - 5 hrs



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