



THE MAKERS OF
Armaflex®



application manual

Arma-Chek® T

APPLICATION OF ARMA-CHEK T

GENERAL PROCEDURES

All finished insulation shall be coated with Arma-Chek Base and Arma-Chek Top flexible membrane coating, which may be applied by brush, roller or airless spray .

These two coats shall be applied at the thicknesses stated below.

The coats are contrasting in colour. It is recommended that a test application be carried out on the Armaflex substrate to demonstrate that the proper film thickness is being achieved.

Measure 1 metre square of Armaflex, cover with a measured 0.50 litres of Arma-Chek Base (allowing for a 10% take up in application brush/roller). Embed one metre square of Arma-Chek Web (for details see below).

Allow to dry before adding 0.50 litres of Arma-Chek top (allowing for a 10% take up in application brush/roller). This will indicate approximate drying times experienced on site as well as approximation of the final construction, which can be used for reference of coating thickness and appearance.

Note: As a means of identification the Arma-Chek Web has red colour indicators randomly dispersed in its structure.

APPLICATION

1. The surface of the Armaflex substrate shall be clean, dry and free from all contamination.
2. The first coat of Arma-Chek Base shall be applied to all exposed surfaces of Armaflex as soon as possible, **and not later than 3 days after installation**, allowing for the Armaflex adhesive to cure completely for 36 hours.
3. Arma-Chek Base shall be applied at a wet film thickness of 0.5 mm, which will be achieved at a coverage rate of 0.50 litres per square metre. To obtain this coverage when using brush application the coating should not be brushed out, as with conventional paints, but rather dabbed on to the surface and lightly smoothed out.



4. While the first coat of Arma-Chek Base is still wet the random fibre glass mat, rough side down, is laid on top and embedded into the coating, using a roller or brush.



5. Allow 1-2 minutes for the water-soluble resin on the mat to dissolve in the Arma-Chek Base. This enables the mat to be worked into the coating more easily so that any creases or wrinkles that may be present initially shall be worked into the coating.
6. When reinforcing large flat areas the glass fibre mat should be embedded into the wet coating using a short pile nylon roller.
7. On pipes, other curved surfaces and areas of poor access it is necessary to embed the reinforcement using a brush or by hand, using disposable gloves for protection, work the fibres well into the wet coating.



8. On all configurations it is particularly important to ensure that each section of the random glass fibre mat is overlapped by at least 50 mm to ensure continuity of reinforcement and bonding to the flexible substrate.
Embedment of the overlap may be made easier by the application of a further coat of Arma-Chek Base in this area.
9. When there is a break in continuity of the insulation, the reinforcement and coating should be taken over the end of the insulation and along the pipe for at least 150 mm where possible.
10. Any wicks or proud fibres in the wet coating may be embedded using a paint-loaded brush or roller. Once the coating is dry any such fibres should be removed using a sharp knife.
11. Drying time for Arma-Chek Base will depend upon coating thickness and ambient conditions. A well-ventilated area will shorten considerably the time to touch dry. Under normal conditions the coating will be touch dry, but not stackable, within two hours.
12. The second coat, Arma-Chek Top, may be applied after the Base coat is 'through-dry', this will normally require that the first coat be left overnight in a protect-

ed but well ventilated area. Arma-Chek Top is applied at a wet film thickness of 0.5 mm, coverage 0.50 litres per square metre. At the correct thickness the random fibre mat should be only just visible through the dried coating. For best results this Top-coat should be laid off at right angles to the first coat if brushing or wherever practical. Arma-Chek Top should be applied within 7 days of Arma-Chek Base.



13. To ensure that drying of these coats occurs within six hours of application, the ambient temperature at the time of application should be a minimum of 3°C dry bulb temperature, this should also be 3 Kelvin above the dew point. Where there is no air flow, eg: still air conditions, both Arma-Chek Base and Arma-Chek Top should be applied on a raising scale of 3-5°C above dew point, or alternatively, mechanical air and or heat circulation may be introduced which will significantly reduce drying times.

WARNING: The Arma-Chek System MUST then be allowed to cure for 7 full days in order to provide complete weathering and impact durability. In the case of Pre-Coated Product, the Arma-Chek must remain dormant. In the case of Site-Applied, the operating line must not be activated within this period.

14. It is recommended that all surfaces should be inspected at least every two years and areas that have suffered damage or are showing sign of undue wear should be thoroughly cleaned, repaired as necessary, and recoated as above.

Note: It is not possible to use Arma-Chek T on HT/Armaflex substrate.

If specifications require HT/Armaflex as insulating material it is recommended to apply an additional Class O Armaflex or NH/Armaflex insulation layer before using Arma-Chek T coating.

ARMA-CHEK COVERING SYSTEMS



Arma-Chek S+

The insulation system resistant to mechanical impact with a bright silver finish.



Arma-Chek D

The lightweight and easy to apply insulation system resistant to mechanical impact.



Arma-Chek R

The insulation system with extra system security that minimises the risk of under insulation corrosion (UIC)



Arma-Chek T

The easy to apply and highly reliable solution for irregular shapes and hard to access areas.



Select the right Arma-Chek Covering System for your application ...

Equipment Type	General Construction		Process Industries		Shipbuilding
	Office & Commercial buildings	Plant buildings / Warehouses	Heavy Industry & Offshore (incl. Petrochemical / LNG)	Pharma & Food industries	
HVAC - Plant rooms	D S	D	D R T	S D	T
HVAC - Service Shafts	D S	D	D R	D S	T
HVAC - Suspended Sub-Flooring	D S		D R	D S	T
AC ductwork, indoors (exposed to view)	S D	S D	D R	S D	
AC ductwork, outdoors	D R S	D R S	R D	R D S	
Pipe work, indoors		D S	R D	S R	
Pipe work, outdoors	D S	D S	R T	D R T	T R
Process Pipework			R T	S R T	R T
Process pipe work, Dual Temp (intermittent)		R	R	R	
Vessels & Tanks, indoors	S D	D R S	R D	S R	T R
Vessels & Tanks, outdoors	D S	R D S	R T	R T	T R
Engine rooms					T

Where a letter appears in a full shaded circle in the table above this implies that the corresponding Arma-Chek system is particularly suited to this application. A letter in a non-shaded circle also implies a high level of suitability for the corresponding Arma-Chek system, although this is not the standard Armacell recommendation for this application.

Arma-Chek products may also be used in areas not indicated above and as such the table represents indicative advice only.



Armacell UK Limited
 Mars Street · Oldham, Greater Manchester · OL9 6LY
 Tel 0161 287 7100 · Fax 0161 633 2685
www.armacell.com/uk · info.uk@armacell.com



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