

INSULGARD 801

Water-based Fluid- Applied
Ceramic Insulation Coating

GENERAL DESCRIPTION

AXEL INSULGARD 801 is a water based fluid- applied ceramic insulation coating system formulated specially for roofs in all climatic conditions.

AXEL INSULGARD 801 is also elastic and incorporated with insulating beads to reflect radiant heat rays and dissipate heat to the atmosphere almost on an instantaneous basis.

RECOMMENDED USES

Formulated for use to rehabilitate all metal., concrete and clay roofs that desired maximum insulation and helps to prevent deteriorating and suffering from various failures. Recommended for use in other substrates such as shingle roofs, built- up roofs, asphalt roofs, asbestos concrete roofs, storage tanks and boiler rooms.

CHARACTERISTICS & ADVANTAGES

- * Easy to apply
- * Waterproofing and stop leaks
- * Environmental friendly
- * Extend the life of the coated substrates
- * Temperature resistance above 80 °C while showing excellent insulation values
- * Ultra Violet resistance
- * Energy and cost efficiency
- * Prevents roof movement – thermal shocks
- * Excellent resistance to moisture and fungal or algal growth

COVERAGE

Theoretical coverage: 2 m² per litre at 200 microns dft.

COLOURS

Standard: Grey or customized colours.

PACKING

20 kg per pail

STORAGE

Store in a dry, cool and shaded place



SURFACE PREPARATIONS

For previously painted surfaces, care should be taken to ensure a clean surface free from dust, dirt, grease and other undesirable residues. Flaking paintworks if any should be scrapped of two firm edges before painting. Excessively chalking substrates and algal or fungal growth on surfaces of roof should be treated appropriately by either physical removal or other treatment and stabilize with proprietary pre- treatments.

METHOD OF APPLICATION

- * Brush, roller, conventional and airless spray for clay or concrete roof tiles or substrates.
- * Stir well before application.
- * A minimum of two coats are recommended and shall be done in a criss-cross manner between coats.
- * Apply second layer after the first layer has dried.

NOTES:

- * **NOT** apply on over damp/wet, over moisture or rising dampness conditions to minimize blistering issue.
- * Apply suitable primer if necessary for extremely porous substrate or special substrates
- * For clay or concrete roof tiles **AXEL ROOFGARD 800 BROWN** or **WHITE PRIMER** must be applied in order to fill up any holes or unevenness due to years of weathering on the surfaces of old tiles.
- * For metal roof tiles **AXEL ROOFGARD METAL PRIMER** must be applied on any existing rust present for rust neutralization purposes.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened or cured material can only be mechanically removed.

TECHNICAL SPECIFICATIONS

No. of components	One
Finishing	Matt
Viscosity (28°C)	Approximately 80-85 KU
Specific gravity	1.0 -1.15 kg/l
Volume solids	40 - 50 %
Recommended dry film thickness	200-250 microns per coat
Drying time (28°C)	Touch dry : 30 minutes Hard dry : 4 hours
Recoating Interval (28°C)	3 - 4 hours

INSULGARD 801

Water-based Fluid- Applied
Ceramic Insulation Coating

OBSERVATIONS

* Testing Material : Shed

* Heat reduction around 20% on shed that treated with **AXEL INSULGARD 801** coating.

Months	Average temperature (°C)		Temperature variance (°C)
	Raw shed (untreated)	Treated shed (Insulguard 801)	
September	27	21	6
October	28.7	22.9	5.8
November	30.9	24.8	6.1
December	29	23.4	5.6

SHELF LIFE

12 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions.

The above data is provided in good faith and to the best of our knowledge. However, since application and services conditions are beyond our control, we do not accept liability relating to coverage, performance and injury arising from the use of our products based on the data. Further with the constant advancement of technology we reserve the right to modify data without prior notice and we advise that you check with our Axelchem Technical Department at Tel: 603-6276 2118 the validity of these data especially if more than six months have lapsed since issue.