Dura-Coat Membrane

since 1895

FEATURES AND BENEFITS

- Unique PUMA technology with the highest elasticity and crack bridging of PU and rapidity of MMA
- 100% waterproof and UV protected
- Very fast curing; 30 minutes at +15°C
- Highest resistance at extremely low and high temperatures No primer needed on most roof sufaces
- Possibility to apply at very low temperatures (0°C)
- Cold applied
- High vapour permeability
- Resistant to plant roots

PRODUCT INFORMATION

DESCRIPTION

Dura-Coat is a heavy duty waterproofing system based polyurethane modified methacrylates.

USAGE

Dura-Coat is ideal for the repair, renovation and waterproofing of roof systems. Dura-Coat can also be used for the waterproofing of construction details.

REMARKS

The pot life after the mixing of Dura-Systems Catalyst is 10 to 15 minutes depending on the ambient temperature and the amount of Dura-Systems Catalyst used.

NOTE

The processing time/pot life after adding the Dura-Walk Catalyst varies between 10 and 15 minutes, depending upon the temperature and the quantity of the Catalyst.

PACKAGING

25kg Dura-Coat Membrane

TECHNICAL INFORMATION

Technical characteristics (liquid state)

Density:	1.36 g/ml
Solids:	100%
Consumption:	2.8 kg/m² in 2 layers to obtain 2 mm
Pot life (15˚C to 20˚C):	± 15 minutes
Curing time (15˚C, 50% R.H.):	± 30 minutes
Rain resistant:	± 20 minutes
Application temperatures:	From 0˚C to +30˚C

Technical characteristics (cured state)

	Not aged	After 200 days, 80˚C	After 1000 MJ/m² UV radiation
E-Modulus ISO 527 Mpa:	23.7	26.3	33.7
Tensile strength MPa:	10.7	11.0	8.07
Elongation %:	283	263	225

Reaction to fire (EN 13501-1 and DIN ENV 1187-1):	Euroclass E

Resistance tested to:	ETAG 005 highest 4 scores obtained
Dynamic indentation:	X
Static indentation:	X
Low temperatures:	X
Extremely low temperatures:	X
High temperatures:	X
UV radiation:	X
Water ageing:	X
Plant roots:	X

Other data is available on demand

USAGE GUIDELINES

The Garland Company UK Limited
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SUBSTRATE PREPARATION

The area to be waterproofed must be dry, clean, free from contamination and free of dirt, grease, oil and other elements which could prevent good adhesion to the substrate. Make sure that the surface permits apply a dry film thickness of Dura-Coat of minimum 2mm.

No primer needed on metal, asphalt, PVC and most bitumen felt. For concrete, wood and cement substrates, apply suitable primer before the application of Dura-Coat

MIXING

Prior to use, Dura-Coat Membrane must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product. Dura-Coat Membrane is thoroughly mixed together with the Dura-Systems Catalyst in accordance with the below guidelines.

It should be noted that the amount of catalyst powder to be added depends upon the ambient temperature.

at 15°C	add 1% by weight of catalyst
at 20°C	add 2% by weight of catalyst
at 10°C	add 4% by weight of catalyst
at 0°C	add 6% by weight of catalyst
below 0°C	add 6% by weight of catalyst and additionally add an accelerating agent, Dura-Systems Accelerator.

Please contact our Technical Service Department for further details.

Note: Weight to Volumetric conversion of Catalyst.
1 cm^3 of Dura-Systems Catalyst weighs 0.64 g
1 g of Dura-Systems Catalyst = 1.57 cm^3

APPLICATION

Dura-Coat Membrane is applied using a notched trowel or squeegee.

The next step of the application depends on the system used (see our System Build-up Sheets).

CONSUMPTION

Consumption: ± 2.8 kg/m2 for the 2 layers.
Apply 1.2 kg/m2 Dura-Coat Membrane in the wet coating, bed in grip polyester fabric and apply a second layer wet in wet of 1.6 kg/m2 Dura-Coat Membrane at least 50mm wider than the fabric.
Let cure and when fully cured apply Dura-Coat coloured Topcoat

Please refer to the product build-up sheets or the bespoke Garland specification issued by your Garland representative.

CLEANING

Clean tools immediately after use with Dura-Systems Cleaner.

STORAGE

Store in a cool dry place and in original packaging and away from direct sunlight. Optimal storage temperature is between 15-20°C.

HEALTH AND SAFETY PRECAUTIONS

Please refer to the Safety Data Sheets for the products used.

Suitable protective clothing, gloves and safety goggles must be worn during mixing and application of Dura-Coat Membrane.

In case of contact with eyes rinse immediately for a long period of time and consult a physician. In case of contact with skin clean immediately with water and soap.

Dura-Coat Membrane is highly flammable; keep away from heat and all sources of ignition and do not smoke. The stirrer as well as all the other electric appliances used on the application site must be explosion-proof versions.

For further information see our Material Safety Data Sheet.

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