

## Technical Data Sheet

# DUROPRIME M50

### One Component Liquid Polyurethane Primer

#### DESCRIPTION

**Duroprime M50** is a moisture curing, single component liquid polyurethane primer. The primer provides a chemical key to the surface such that moisture curing polyurethane membranes (used in waterproofing) will adhere to. The Duroprime M50 improves the adhesion and improves the spreading and application of the moisture curing polyurethane membranes. The primer is a penetrating sealer and the polyurethane dries by the evaporation of the solvent and then cures upon contact with water vapour in the air. The liquid is coloured green/blue so you can see where you have applied it.

#### FEATURES

- One component – single pack and easy to use.
- Fast drying typically 45 – 90 mins – depending on ambient temperature and relative humidity
- Low viscosity – aids the penetration of the concrete
- Improves the coverage of moisture curing polyurethane membrane
- Dries to a hard film

#### USES

- Formulated for application on mineral surfaces

#### COMPONENT PROPERTIES

*These values are typical properties and are not to be used for specification.*

Property	Polyurethane Liquid
Appearance	Greenish blue liquid
Viscosity @ 25°C/cps	5 – 20
Specific gravity @ 25°C/g/ml	0.99 – 1.05

#### MIXING AND CURING CONDITIONS

*These values are typical properties and are not to be used for specification.*

Property	Resin / Hardener
Dry time 23°C and 50% RH	Up to 90 minutes at 100 microns WFT
Recommended film thickness	100 microns
Adhesion to concrete N/mm <sup>2</sup>	2.3 cohesive failure to concrete
Coverage (depending on surface)	8 – 10m <sup>2</sup> /L

## APPLICATION

**Surface Preparation:** The surface must be clean, dry and free from loose particles, including dust, grease

The primer is applied by brush or roller to a maximum thickness 120 microns applied to mineral substrates. Allow Duroprime M50 to dry before top coating it with moisture curing polyurethane membrane. Apply the moisture curing polyurethane membrane as soon as primer has cured (allow approximately 2 hours for solvent to evaporate). Do not exceed 24 hours drying time.

## PACKAGING

The product will be supplied 15Kg epon lined metal pails.

## STORAGE

Duroprime M50 stored in its original sealed containers for up to 12 months in controlled environment. Place out of direct sunlight at temperatures between 15 – 30°C. Once the pail or tin has been opened then reseal with dry nitrogen.

## CLEANING

Clean the tools and equipment with rags immediately by wiping off excess and use a solvent to clean such as xylene as a cleaning solvent.

## LIMITATIONS

- Duroprime M50 is not be used a primary waterproofing membrane.
- Duroprime M50 is not a moisture barrier and should only be used when there is a very low risk of entrapped moisture in the slab.
- Duroprime M50 is not to be used as an exposed coating on roofs and external areas.

## PRECAUTION

This product contains solvent. Product is flammable. Observe the safety precautions in MSDS. Ensure adequate ventilations and observe suitability for and or not e used in confined areas. Ensure fresh air is supplied. The use of goggles, gloves, overalls and safety footwear is needed. Keep way from sources of ignition.

## HEATH and SAFETY

Please read the MSDS before use. Please observe the precautionary notices displayed on container. Use under well ventilated conditions. Avoid skin contact and eye contact. Spillage on the skin should be removed immediately with suitable cleanser, soap and water. Eyes should be well flushed with water and seek medical attention immediately.

For the full health and safety hazard information and how to safety handle use the product, please make sure you refer to relevant MSDS.