

# PROTEXX METALHIDE

Tough high-build coating for steel

October 2023

## PURPOSE AND AREAS OF USE:

Protexx MetalHide is a tough high-build coating for use on correctly prepared structural steel surfaces, both interior and exterior (certain shades only) which have been correctly prepared to receive the coating. MetalHide may also be used on cementitious surfaces in conjunction with steelwork where a uniform finish is required.

## PRODUCT:

A single component polyurethane coating base containing pigmentation which inhibits the passage of water vapour and oxygen underlying steel surfaces, this inhibiting the formation of rust. The polymer system has excellent penetrative and adhesion properties.

## PROCESS COMPATIBILITY:

MetalHide can be applied over most existing types of steel coatings except chlorinated rubber and 2-component system where compatibility and adhesion should be checked before use. Bare steel should be primed with Aluprime or Zincure depending upon condition.

## COLOUR:

MetalHide is available in mid pastel to deep colours, for interior use, and as shaded aluminium finish for exterior use. The pigmentation does not allow supply in white or pale pastel shades.

## STANDARD PACK:

4 litre and 20 litre metal pails.

## PHYSICAL PROPERTIES:

Liquid Material	
Solids (% by volume)	60-72
Specific Gravity	1.15-1.22 (depending on pigmentation)
Flash Point (°C)	38
Shelf Life	One year in original sealed container when stored in cool, dry conditions.

Applied Film	
Flexibility	Passes 3mm mandrel @ 75 $\mu$ d.f.t 3mm mandrel @ 150 $\mu$ d.f.t
Durability	Excellent, noting that shaded aluminium grades have lowered acid resistance.
Normal Film Build	125-140 $\mu$ d.f.t
Chemical Resistance	Excellent, noting that shaded aluminium grades have lowered acid resistance.
Fungus Resistance	MetalHide presents an inert surface which will not promote the growth of common mould and fungi.

## SURFACE PREPARATION:

Painted steelwork	Must be clean and dry, with surface rust, dirt and grime removed.
Bare steelwork	Should be abrasive blasted and primed with Protexx Zincure or mechanically wire-brushed/ground and primed with either Zincure or Protexx Aluprime.
Concrete surfaces	Should be clean and dry, and if porous, primed with either Traxx 1050 or Chevaline Epistixx.

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## APPLICATION PROPERTIES:

### Spreading rate:

Theoretical on smooth surface	5-6 sqm/litre 120 $\mu$ d.f.t.
Practical	5.5-5 sqm/litre
Dilution	Normally not needed for brush/roller application. Up to 15% by volume with Xylol for spray application, depending on type of equipment used.
Thinning/Clean up	Thin with Xylol. Clean up with Xylol or Colourcure AP Thinners.

### Dry times (depending on atmospheric conditions):

Touch dry	4-6 hours
Through dry	24 hours
Full cure	2-3 days

## SPECIFICATION NOTES:

1. MetalHide is normally applied by spray in a single double-pass coat to a correctly prepared surface. Brush and/or roller application may require two coats to achieve the same film build.
2. For most purposes, on most previously painted steelwork, an average d.f.t of 100 $\mu$  will provide adequate coverage and protection, with 15% SD.

## HEALTH AND SAFETY:

MetalHide is a solvent-based urethane coating. All normal precautions for handling solvent-borne materials must be observed including:

- Storage in cool dry conditions away from naked flames
- No Smoking in area while handling or applying
- Use of barrier cream on exposed skin
- Use of solvent cartridge mask and safety goggles while handling material. Note, that this material contains a small portion of free isocyanate monomer with very low vapour pressure. For normal application it presents a very low health hazard.

## WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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## MANUFACTURERS CONTACT DETAILS:

Manufacture location	New Zealand
Legal and trading name of manufacturer	Equus Industries Ltd.
Manufacturer address for service	4 Sheffield Street, Blenheim 7274
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