

# ROBOTON

Aliphatic Polyurethane

## Product Data

- High solids, high build, multi functional coating
  - Low VOC\*
  - High gloss, self-priming
  - Excellent gloss retention
  - Direct-to-metal or concrete
  - Outstanding abrasion, reverse and direct impact resistance
  - Good chemical and stain resistance
  - Tough and flexible coating
- Typical Uses**
- . HIGH UV resistant

Industrial structural steel, tanks, swimming pools, piping, concrete floors, retaining walls, waste treatment, chemical and petrochemical plants. Railcar exterior and hopper lining. Bridge structural steel. Marine structural steel, decks, boot tops, topsides, superstructures on ships, barges and offshore platforms.

### Outstanding Characteristics

**ROBOTON** displays high gloss; shows excellent color and gloss retention during extended service periods. The direct-to-metal capabilities of **ROBOTON** provide a single coat system at reduced installation cost. Compatible over abrasive blasted hot-rolled steel. It has outstanding abrasion resistance and excellent resistance to direct and reverse impact. **ROBOTON** has excellent adhesion to concrete providing a durable, glossy, easy-to-clean system.

## **Aliphatic Polyurethane**

### **Physical Data**

Finish	gloss
Color	RAL
Substrate	prepared steel, galvanized, aluminium, concrete, masonry
Components.	2
Curing mechanism	solvent release and chemical reaction
Volume solids	89% (ASTM-D2697 modified) **
Dry film thickness	150-175 µm per coat
Number of coats	1 or 2 *
Tensile Strength@ 25 °C	<b>ASTM D-412</b> : >12 N/mm <sup>2</sup>
Elongation @ 25 °C	<b>ASTM D-412</b> : 150% - 200%
Hardness (Shore D)	<b>ASTM D-2240</b> : 45 to 55
Flexibility 3mm I	<b>ASTM D-1737</b> : Pass
Tear Strength	<b>ASTM D-624</b> : >40 kN/m
Abrasion Resistance	<b>ASTM D-4060</b> : <20 mg loss 1kg wt - 1000 cycles - CS 17 Wheel

Allow for application losses, surface irregularities, etc.

Application methods Airless or conventional

Spray, brush or roller\*\*\*

Pot life (at 20EC) 2½ hours

Pot life is dependent on temperature and quantities mixed.

Dry to touch 4 2½ 1 hours

Dry through 72 10 5 hours

For maximum recoating times see application instructions.

Mixing ratio (by volume)

Resin 4 parts

Cure 1 part

Specific gravity 1.2 - 1.4 kg/l (mixed product)

Thinner Special thinner

Cleaner same

Packaging

Resin 4US Gallon

Cure 1US Gallon

Shelf life 2 years from shipment date when stored indoors in Unopened barrels.

**Safety**

Since improper use and handling can be hazardous to health and cause fire or explosion, safety precautions included with application instructions must be observed during all storage, handling, use and drying periods.

To avoid any confusion that may arise through translation into other languages, the English version of the Product Data/Application instructions will be the governing literature and must be referred to in case of deviations with product literature in other languages.