



# ARMOURTHANE® POLYASPER 170

Fast Cure Two Component Poly Aspartic Coating with UV Stability

## PRODUCT DESCRIPTION:

**ARMOURTHANE® POLYASPER 170** is a two components aliphatic poly aspartic polyurea coating with excellent anti-corrosion properties and long term protection of structure. Unique properties of **ARMOURTHANE® POLYASPER 170** makes it unique product for new and old civil structure. It is ideal product as a single coat Direct-to-Metal or over suitable primes for high corrosive environments.

## USES:

**ARMOURTHANE® POLYASPER 170** is suitable for structural steel and piping to be exposed to corrosive and high temperature environments such as bridges, containers, refineries, petrochemical industry, power-plants, storage tanks, cranes, windmills and steel structures part of civil structures e.g. airports, stadia, tall buildings.

## BENEFITS:

- ) Single coat product for C2 and C3 corrosive environment (as per ISO12944)
- ) Two coat system for C4 and C5 corrosive environments (as per ISO12944)
- ) Direct to metal coat
- ) Low temperature cure
- ) Early hardness development
- ) Corrosion protection within 4 hours of application and return to service in same day
- ) High build coating

## PRACTICAL INFORMATION:

<b>Product</b>	<b>Two components direct to metal special polyurea</b>
<b>Colour</b>	Limited colour range available
<b>Gloss Level</b>	Semi GLOss
<b>Volume Solids</b>	80%±1%
<b>Practical Coverage</b>	8.4 m <sup>2</sup> /lit for 100 micron thickness (DFT)
<b>Theoretical Thickness</b>	150 to 250 micron dft for 188 to 310 micron wft
<b>Method of Application</b>	Air spray, Airless spray
<b>Specific Density</b>	1.5
<b>Suitable Primer</b>	Jastacoat, MetaPrime 1200, MetaPrime ZR1201, MetaPrime ZR1204, MetaPrime ZP1205
<b>Mixing Ratio</b>	4:1 by volume
<b>Packing</b>	1, 4, 20 litres



## REGULATORY DATA:

Flash Point (Typical)	54 °C (129 °F)
VOC	145 gm/lit

## APPLICATION DATA:

### Ambient Conditions for Application

Dry conditions

Minimum Temperature: 5 °C

Do not apply if the air temperature is below 5 °C.

Drying Time

Temperature, oC	Touch Dry, Minutes	Hard Dry, Hours	Overcoat Interval	
			Minimum, Hr	Maximum, Day
5	60	3.5	4	7
15	45	3	3.5	7
25	30	2.5	3	7
40	15	1	1	7

### Preparation of Surfaces

The surface should be blast cleaned to SSPC-SP 10-63T or NACE No. 2 i.e. loose rust and scales, dirt, grease, oil, paint, wax, weak oxide films and other contaminants should be removed. Blast cleaning to SSPC-SP 5-63 or NACE No. 1 is recommended where heavy corrosive conditions exist or coating is required to be immersed. That means a surface with a grey metallic colour, slightly roughened to form a suitable anchor pattern for coatings. This surface is free of all oil, grease, dirt, mill scale, rust, corrosion products, oxides, paint and other foreign matter. In absence of blast cleaning, prepare the metal surface by wire brushing, sanding, grinding, scrapping or chipping with hand or power tools. Remove all the contaminants. Apply one coat of **MetaPrime** primers followed by **ARMOURTHANE® POLYASPER 170** for two coat application. For single coat system **ARMOURTHANE® POLYASPER 170** direct to metal.



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A small area should always be tested to ensure adhesion and compatibility.

## Application of Coating

Each component should be individually mixed to obtain homogeneous mix.

For Direct-to-metal application, **ARMOURTHANE® POLYASPER 170** is applied directly. For two coat system It is always advised to prime the surface with suitable primer before applying **ARMOURTHANE® POLYASPER 170** to the substrate. Apply the product by spray, brush or roller, such that surface is coated evenly. Second coat, if required, should be applied when first coat is touch dry.

## CLEANING:

All tools should be cleaned with suitable cleaner immediately after use.

## STORAGE:

Store in dry, frost-free conditions at moderate temperatures not greater than 25 °C.

## WARRANTY

Multichem warrants **ARMOURTHANE® POLYASPER 170** to be free from manufacturing defects as defined in this warranty. Manufacturing defects are those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs, or expenses associated with the removal or installation of **ARMOURTHANE® POLYASPER 170**.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of **ARMOURTHANE® POLYASPER 170**.

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