

## INTRODUCTION:

**ARMOURTHANE GUARD** is a two components aliphatic poly aspartic polyurea sealer /finish coating for decorative and protective application areas. Unique properties of **ARMOURTHANE GUARD** makes it unique product for new and old civil structure. It is ideal product as a top coat for Floorkrete **MultiFlakes**, **MultiQuartz** or **StoneSho** product finish. **ARMOURTHANE GUARD** is used for optimal impact, abrasion, and chemical resistance characteristics. Being multipurpose, it can be used as a primer, mid coat or top coat, exterior or interior application.

## Unique Features:

- Walk in 4 hours and return to service in same day
- Resistant to Hot-tire pickup
- Long term crack resistance
- Superior freeze/thaw resistance
- Very low shrinkage
- Non-toxic
- Excellent chemical & stain resistance with resistant to fuel oil and Skydrol
- Anti-skid properties can be incorporated.

## USES:

- Exposed roofing, decks and podiums
- Car parks and ramps
- Compactor room floors, plant rooms and wash rooms
- Industrial floors, warehouses
- Sport stadium service-ways, plats and vomitories
- For metal, use Zinc rich primer, such as **Multicoat MetaPrime ZR1201** and pigmented **ArmourThane Guard** as top coat.

## ADVANTAGES:

**SIMPLE PACKAGE:** Material is pre-packaged in a convenient and easy to handle size. Requires only site mixing.

**EASY TO USE:** Brush or spray applied, normally in two coats.

**ADHESIVE:** Excellent adhesion to steel and sound prepared concrete substrates.

**QUICK DRYING:** Typically touch dry in 1 hours (depending on humidity).

**SAFE:** Non-toxic when cured, nonhazardous, solvent and plasticizer free.

**IMPERMEABLE:** Very high resistance to water permeability and diffusion to carbon dioxide gas.

**COST EFFECT:** Economical.

**OVERCOATING:** Easily overcoated with other specialist membranes in the Multichem range to provide further protection and aesthetic quality.

## TECHNICAL DATA:

| PROPERTIES                               | RESULTS                            |
|------------------------------------------|------------------------------------|
| Appearance                               | Clear or Pigmented liquid          |
| Open Time                                | 30 minutes @ 25 °C                 |
| Packaging                                | 20 Kg bucket                       |
| Specific Density                         | 1.3-1.35                           |
| Tensile Strength                         | 30 N/mm <sup>2</sup>               |
| Coverage                                 | 8-10 m <sup>2</sup> /kg/100 micron |
| Colour                                   | Clear, other colours               |
| Waterproofing Permeability, IS 2645-1975 | Nil                                |
| Shore A Hardness, ASTM D2240             | 65                                 |
| Shelf Life                               | 1 year from date of manufacturing  |

## APPLICATION DATA:

### PREPARATION

The areas to be treated must be free from all unsound material, i.e. dust, oil, grease, corrosion by-products and organic growth. Smooth surfaces should be roughened, all loose material and surface laitance removed and steel cleaned to bright metal preferably using wet grit or water blasting techniques or equivalent approved methods. Surface should be leveled with **Multichem** leveling compound. The strength of the concrete sub-base should be a minimum of 20N/mm<sup>2</sup>.

For metal substrate, proper surface cleaning and profile should be created. Use suitable primer as per service conditions.

### PRIMING

The prepared substrate concrete should be thoroughly dry. Apply **MultiThane Primer 21** or **AquaBlock Primer** as per technical requirement. Allow primer to dry for 12-24 hours before topcoat. For metal substrate, use MetaPrime Primer series.

## PLACING

**ARMOURTHANE GUARD** can be applied using spray techniques, brush or roller. While using brush application care must be taken to ensure that air is not entrapped onto the surface. Apply the first coat, approximately 50 to 100 micron thick, onto the prepared substrate. To ensure total protection, a second coat should be applied in the same way, after waiting approximately 1 hour depending on temperature (when the first coat is stable but not fully set). After application the surface need to be protected from light traffic movement till coating is fully cured. Contact Technical team for further details.

## CLEANING

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

## STORAGE:

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

## IMPORTANT POINTS:

1. Apply only to clean, sound substrates. Concrete/metal should be primed with suitable primer before top coats and free of water backpressure.
2. Care should be taken when curing in hot, sunny or windy conditions.
3. Discard **ARMOURTHANE GUARD** packages which has been subjected to freezing temperatures.

## PACKAGING:

**Pack Size: 5, 20 kg**

## SAFETY DATA:

- Irritating to eyes, respiratory systems and skin.
- Risk of serious damage to eyes.
- Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
- After contact with skin, wash immediately with plenty of clean water.

- **Wear suitable protective clothing, gloves and eye/face protection.**

Please consult our technical department for further information. The product, ARMOURTHANE GUARD provided here is for not for 'Do-it-Yourself', (DIY).

## **WARRANTY**

Multichem warrants ARMOURTHANE GUARD to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be 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 GUARD.

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 GUARD.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.