

Polybond Ltd

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Acrathane (2pk Polyurethane) - Technical Datasheet

Product Function

Polyurethane coatings provide protection to many types of surfaces in a wide range of industrial and commercial areas where a glazed finish is required. This product may be applied by brush, roller or spray. The continuous surface prevents penetration of moisture or dirt. Acrathane can be used on walls, ceilings, woodwork and metals which are ferrous or non ferrous and thus has many uses throughout numerous industries. It has excellent release and abrasion resistance properties making it ideal for the inside coating of storage bins containing fine powders and as a release agent for concrete shuttering made of both wood and metal.

Surface Preparation

Correct and adequate surface preparation is required if the maximum protection is to be achieved. Surfaces must be free of oil, dust or loose materials. Rust, scale or corroded deposits must be removed from metal surfaces the most effective method for this is shot-blasting. If this system is unavailable or the situation of the surface to be treated is non conducive to this, the area should be manually prepared to provide a clean keyed surface ready for application.

Application

As soon as the base and hardener components of Acrathane have been mixed together, the product is ready for use. Brushwork should be carried out with a soft brush which is well loaded with the paint. A generous coat should be applied and not brushed out excessively. Spray application will require 10% Universal Thinners to be added to the base and hardener. Airless equipment providing spray pressure of 40-50lbs is recommended. All apparatus should be cleaned with Universal Thinners immediately following application.

Chemical Resistance

Acrathane has an excellent resistance to water, oils, detergents, fats, greases, fruit juices, blood, most solvents and many acids and alkalis. It is superb where hygiene requirements are paramount as once fully cured, it is inert, odourless and tasteless - rendering it ideal for contact with foodstuffs.

Mixing Ratio

The base and hardener form the two parts of this product. They are supplied in correctly matched quantities. If the whole contents of the pots are to be used at one time, no measuring is required. Merely pour the can of hardener into the base material, stir thoroughly and apply. Smaller proportions can be mixed by using three parts of base resin to one part of hardener by volume.

Properties

Packaging	3 and 6 litre twin packs.
Heat Resistance	In dry conditions, will resist temperatures of up to 200°C (400°F)
Storage Life	In excess of 12 months if unmixed.
Pot Life	8 hours @ 20°C (68°F).
Drying Times	Touch Dry : 2 hours @ 20°C (68°F). Hard Dry : 6 to 8 hours @ 20°C (68°F) Full Cure : 7 to 10 days
Minimum Cure Temp	10°C (50°F)
Maximum Relative Humidity	60%
Coverage	Undercoat : 9m ² /l @ 50 microns. Topcoat : 10m ² /l @ 40 microns. These figures are based on application to smooth and non-porous surfaces
Colour	All colours available to BS or RAL standards

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