

am POLYUREA 1000R/H

DESCRIPTION

am POLYUREA 1000R/H is Polyurea paint, spray paint system, two components, zero VOC's (Volatile Organic Compound), 100% Solid. It is two liquids high temperature and pressure spray coating paints. Its reaction is very fast with its high speed hardening and is formed in a few seconds Polyurea have high property such as impact, wear-resistance, tensile strength, coefficient of expansion, water-proofing, low-temperature resistance, chemical resistivity, excellent adhesion.

TYPICAL APPLICATION AREAS

- For waterproof coating on concrete and wood structure. (Airport, apartment, water-tank, all most concrete structure)
- For Chemical resistance area
- For oil resistance (oil proof) area
- For multipurpose protection coating.

FEATURES

- Zero VOC's (100% solid)
- Short curing time (30 sec)
- High tensile strength and elongation
- Low-temperature resistance
- Excellent resistance to Thermal shock
- Excellent resistance to solvent and oil and acid (chemical)
- Excellent bond strength to properly prepared surfaces
- **Note:** *For the area exposed to the sun, after finishing construction of the product **am POLYUREA 1000R/H**, it is necessary to paint 2 layers **am FLEXPROOF 504 PU RS** with the norm of 0.25-0.3kg/m² to protect against fading.*

SURFACE PREPARATION

The surface must be solid, clean, dry and homogeneous before application. Surface must be completely removed from oil, grease, moisture, cement paste and other contaminants.

PRIMING

After applying UP - 100 Primer to the surface, wait for 1 - 3 hours to dry and then, apply the next **am POLYUREA 1000R/H** on surface.

CONSUMPTION

1.10 kg/ m²/mm (**am POLYUREA 1000R**: 0.55kg, **am POLYUREA 1000H**: 0.55kg)
 Minimum two coats should be applied, But practical consumption depend on the pock-marked state of concrete and mortar.

PACKAGING & SHELF LIFE

415 Kg/ set (**am POLYUREA 1000R**: 215kg, **am POLYUREA 1000H** : 200kg)
 Product has a shelf life (at 25°C) of 1 year from date of manufacture in factory sealed containers. Store in cool, dry, well-ventilated place. Please avoid exposure to humidity. Please avoid contamination of water, and alcohol.

TECHNICAL DATA

Tack Free (25°C)	10~30 sec
Hardness	95 ± 5 (Shore A)
Tensile strength	≥ 16 N/mm ²
Elongation	≥ 300 %
Tear strength	≥ 50 N/mm
Immersion during 168hrs at room temperature	
10% - Sulfuric acid	Not change
30% - Sodiumchloride	Not change
30% - Sodiumhydroxide	Not change
50% - Sodiumhydroxide	Not change
Diesel	Not change
Salt water resistance	Not change

❖ Presented the technical data are changeable according to quality improvements or working Conditions because the were acquired from the results of the laboratory test and the scene of application.

RESIN PROPERTIER

Item	am POLYUREA 1000R	am POLYUREA 1000H
Type	Isocyanate Prepolymer	Amine Mixture
Appearance	Yellowsh Liquid	Pigmented Liquid
Viscosity (cps at 25°C)	400~600	700~800
Mixing Ratio (Volume)	1	1
Solids Content	100%	100%

USAGE GUIDELINES

❖ General Application Instructions

• Application of **am** POLYUREA 1000R/H must be clean, dry, surface without loose particles or other strange materials. **am** POLYUREA 1000R/H can be sprayed in a wide range with normal temperature and substrate surfaces. The limitations are in the ability of the application equipment to provide adequate material pressure and heat. Contact technical service personnel for specific recommendations, pricing and availability of spray and auxiliary equipment. It is recommended that **am** POLYUREA 1000R/H be sprayed in multidirectional (north-south/east-west) passes to insure uniform thickness. The amine "B" component must be thoroughly power mixed each day, prior to use.

❖ Recommended Equipment Settings

- Standard 1:1 ratio, heated, plural component equipment developing a minimum of 1,500psi (10.34 MPa) dynamic pressure with heating capabilities to 79°C (175°F) will adequately spray this product. These include GRACO-GUSMER H-3500, H-20_35 Pro, E-XP2. Gun models include Graco-Gusmer GX-7, GX-8, Fusion MP Gun.
- Pre-heater temperature should be at 70-75°C (158-167°F)
- Hose temperature should be at 60-70°C (140-158°F) a hose thermometer inserted under the insulation near the gun should read a minimum of 55-70°C (131-158°F)
- Physical properties will be enhanced when sprayed at higher pressure (2,500 psi or more) (17.24 MPa), utilizing an impingement mix gun such as the Graco-Gusmer GX-7, GX-8, Fusion MP gun.

PRECAUTION

- Application should be in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Hands and eyes must be protected with gloves and protective glasses. Case of eye contact, rinse eyes with plenty of water for the material and consult a doctor immediately. Keep in mind that solvents are heavier than air so they creep on the floor.
- Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material.
- Published technical data and instructions are subject to change without notice. Contact your local Asia Mortar Products representative or visit our website for current technical data and instructions.

Revised 3-Aug' 2020



Asia Mortar Co., LTD (AM Co., LTD)

Tel: (84-028) 38 20 8686 Fax: (84-028) 38 20 8866

Email: amv@asiamortar.com.vn Website: www.asiamortar.com.vn



ISO 9001 : 2000 Cert.No. : 821853a

This information in this catalogue is provided to the best of our knowledge from results gathered both internal and external credited laboratories. However, we have no control over site applications, site conditions and workmanship of the applicator. We therefore will not accept any liability, either directly or indirectly arising from the misuse of these products or when the product is used not in accordance with any advice, specification, and recommendation of information given by us, The user is responsible for checking the suitability of these products for its intended use.

