

# GRADASEAL (HNK) PU 1K

One Component, Low viscosity, UV  
Resistant Liquid Polyurethane Membrane

One component, low viscosity, UV stable, PU based elastic liquid waterproofing membrane. It produces a durable and highly elastic membrane by curing the humidity.

## SURFACE PREPARATION

All surfaces must be free of oil, grease and moisture before the application. Clean the surface using a high pressure washer and remove oil, grease and wax contaminants, cement laitance, loose particles and mould release agents must be removed. Fill surface irregularities with the relevant product.

## FEATURES

- UV resistance, • Simple application (brush, roller or airless spray), • When applied forms seamless membrane without joints, • As it is pure polyurethane, it can continually contact with water. • Maintains its mechanical properties over a temperature span of -40°C to +90°C, • Provides water vapor permeability, so the surface can breathe, • Even the membrane gets damaged, it can be easily repaired locally within minutes. • Resistance to chemicals,

## TYPICAL APPLICATIONS

- Irrigation channels, • Terraces, verandas and balconies, • Under tile waterproofing (bathroom, kitchens etc.) • Car parks, • Gypsum and cement boards, • Indoors and outdoors, • Waterproofing of exposed roofs, • Bridge platforms, • Asphalt membranes, • Stadiums and stands.

## PRIMING

Prime very absorbent and brittle concrete or brittle cement screed surfaces with PRIMER PU 1K , PRIMER S 115, PRIMER S 120 (Humidity of the concrete should not exceed %5). Or for damp concretes PU PRIMER 2K or EPOXY PRIMER is suggested for moisture barrier.

Prime non-absorbent surfaces like metal, ceramic tiles and old coatings with PU TILE PRIMER.

Apply the material with roller or brush in minimum two, coats. Do not exceed 48 hours between each coats. For a better interlayer adhesion, use PU PRIMER 1K.

MIXING HNK PU 1K; Power first mix the portion to obtain a smooth, homogenous condition. After the stirring is complete, continue mixing slowly several minutes. Use a low speed mixer until a homogenous mixture is achieved.

APPLICATION ; Apply the mixture with a brush or a roller in minimum two layers. After first layer is applied minimum 12 hours max 24 hours, second layer should be applied. Do not exceed 48 hours between each coats. Do not allow coating to remain in the application equipment longer than 2 hours.

CONSUMPTION: Each layer min.: 0,75 - 0,90 kg/m<sup>2</sup> Min. two coats should be applied Total min. consumption: 1,5 - 1,8 kg/m<sup>2</sup>

PACKAGING AND SHELF LIFE: 5 Kg - 25 Kg Can be kept for minimum 12 months in the original

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sealed pails in dry places and at temperatures of 5-25 °C. Once opened, use as soon as possible.

**PRECAUTION:** Apply 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. The MSDS (Material Safety Data Sheet) is available on request.

**NOTE:** This is not a specification and all information is given in good faith. Since conditions of use are beyond the manufacturer's control, information contained herein is without warranty, implied or otherwise, and final determination of the suitability of any information or material for the use contemplated, the manner of use and whether there is any infringement of patents is the sole responsibility of the user. Manufacturer does not assume any liability in connection with the use of the product relative to coverage, performance or injury. For application in special conditions, consult GRADA for detailed recommendations. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid.

**Coating type:** 1K Polyurethane

**Color :** White, Grey

**Density:** 1,40 gr/cm<sup>3</sup> ±0.05  
ASTM D 1475/EN ISO 2811-1(20°)

**Viscosity :** 2500-3500cp  
ASTM D 2196/EN ISO 3219(25°)

**Packaging:** 5 Kg - 25 Kg

**Water Vapor Permeability (ASTM E96)** 0,8 gr/ m<sup>2</sup> per hour

**Gloss:** Semi Gloss

**Application Temperature :** +5 °C to +35 °C

**Thinner:** Thinning is not recommended

**Temperature resistance:** 100 days at 80 °C & 200 °C Dry (shock)

**Shelf Life:** 12 Months

**Theoretical spreading rate:** 1,5-1,8 kg/m<sup>2</sup>

**Hardness:** 70 (Shore A)  
ASTM D2240, DIN 53505, ISO R 868

**Elongation Percentage:** ≥ %600  
(23°C)(ASTM D 412)

**QUV (ASTM G53):** 2000 hours

**Tensile Force at Break:** ≥ 8 N/mm<sup>2</sup>  
(23°C)(ASTM D 412)

**Adherence on Concrete:** ≥ 2 N/mm<sup>2</sup>  
(23°C)(ASTM D 903)

**Method of application:** Airless spray, roller and brush

**Drying Time Potlife and drying time depends on temperature and quantities mixed:**

23 °C , %55 RH

**Touch dry:** 6 Hrs

**Recoating:** 8-24 Hrs

**Fully cured:** 7 days

