

2 component, waterproof, elastic, hot sprayed polyurea membrane with excellent mechanical properties.



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EN 1504-2

Surface protection product  
Coating

## APPLICATION

Protection for concrete, steel and wood, against wear, abrasion, corrosion and chemicals. Waterproofing membrane for concrete structures and roofs. Waterproofing and coating of surfaces such as:

- Interiors and exteriors of steel and concrete ponds.
- Tunnels (coating or waterproofing, Cut and Cover method and immersed tunnel segments).
- Primary and secondary containment of fluids (parapets).
- Ponds and tanks in general.
- Pools in industrial processes.
- Reservoirs, viaducts and irrigation canals.
- Bridge pillars and decks.
- Waterproofing of roofs for industrial warehouses.
- Subway stations (ceiling and floor).
- Sealing of joints (prefabricated elements).
- Bonding of walls, floors and expansion joints.
- Cellars and refrigeration tunnels.
- Vehicles, boat decks, industrial parts subject to wear.
- Repair of concrete and substrates in general.
- Surfaces subject to abrasion...
- Barrier to prevent root penetration.

## ADVANTAGES

- Easy and fast application with machine.
- High abrasion and wear resistance.
- High elongation.
- High shock and impact resistance.
- High resistance to corrosion and chemical attack.
- Continuous waterproofing membrane.
- Ultra-rapid reactivity (seconds).
- Excellent adhesion to metal, concrete and foam.
- 3 - dimensional application.
- No risk to environment.
- VOC and solvent free.
- Bacteriologically stable...
- Excellent resistance to saline water.

## USAGE

± 1,05 kg/mm/m<sup>2</sup> (standard thickness for application is 2 mm).

## APPLICATION PRESCRIPTIONS

- **Preparation**  
Adequate surface preparation is mandatory for success. Thoroughly clean the surface in order to have a good adhesion. All dust, grease, paint and loose particles are to be removed. Apply UREASPRAY 400 only on dry and clean surfaces.
- **Primers**  
For metals: UREAPRIM METAL.  
For concrete: UREAPRIM CONCRETE.
- **UREASPRAY 400**  
UREASPRAY 400 is hot sprayed with a 2 component high pressure reactor (type Graco EXP2). This spray coating has a very short reaction time and can be applied 3 dimensionally in layers with thickness from 1 mm to 5 mm.
- **Topcoat**  
For protection against UV and surface discoloration use UREATOP SW, a high quality elastic aliphatic topcoat.
- **Accessories**  
UREA GUNCLEANER.
- **Important**  
UREASPRAY 400 can only be used by fully trained professional applicators. Consult or network.  
For all applications consult our general Method Statement or our technical staff.

## TECHNICAL DATA

Mix ratio	1:1 (volume)
Volatile Organic Compounds - VOC (g/l)	0
Viscosity (CPS) comp A/ comp B	800 / 750
Service temperature (°C)	-20 to 85
Max. temperature for occasional use (°C)	150
Density (g/cc)	1,077
Gel time (sec)	5
Walkable (min)	5
Full cure 100% (h)	24
Tensile strength (MPa) (NBN EN 12311-2)	21
Elongation (%) (NBN EN 12311-2)	345 - 400
Shore A hardness	92
Shore D hardness	45
Abrasion resistance mg lost, Taber method, (1,000 g/ 1,000 cycles), CS-10	< 26
Adhesion to concrete (dry)	≥ 4,03 N/mm <sup>2</sup>
Adhesion to concrete (wet)	≥ 3,06 N/mm <sup>2</sup>
Pull off test	NBN EN 1542
Crack bridging (NBN EN 1062-7)	> 9 mm
Capillary absorption (mg/(m <sup>2</sup> .h <sup>0.5</sup> ))	< 13
Water vapour permeability (EN ISO 7783)	Class II (< 2.5 g/day/ m <sup>2</sup> )
UV resistance - 500 h (50°C, 50 W/m <sup>2</sup> )	Compliant
Atmospheric humidity during application	15 - 90 %
Peeling (N/mm <sup>2</sup> )	70
Shear strength (N/mm <sup>2</sup> )	40

**STORAGE**

12 months in original packaging. Keep original drums tightly closed to prevent contamination by humidity. Store in clean and dry place between 10°C and 30°C.

**PACKAGING**

- Set of 120 kg (60kg comp. A (amine) + 60kg comp. B (ISO))
- Set of 450 kg (225kg comp. A (amine) + 225kg comp. B (ISO))

**SAFETY AND HEALTH PRECAUTIONS**

For more information, consult the safety data sheet.