

AVERA SPRAY 400

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

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...

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...

HOW TO USE IT

- ❖ 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 AVERASPRAY-400 only on dry and clean surfaces.
- ❖ Primers For metals: AVREAPRIM METAL.
- ❖ For concrete: AVREAPRIM CONCRETE.
- ❖ AVEASPRAY 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 AVERATOP SW, a high-quality elastic aliphatic topcoat.
- ❖ Accessories UREA GUNCLEANER.
- ❖ Important AVREA SPRAY 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.

PACKING

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

USAGE

± 1,05 kg/mm/m² (standard thickness for application is 2 mm).

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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)	1.12
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 ²
Adhesion to concrete (wet)	≥ 3,06 N/mm ²
Pull off test	NBN EN 1542
Crack bridging (NBN EN 1062-7)	> 9 mm
Capillary absorption (mg/ (m ² .h 0.5))	< 13
Water vapour permeability (EN ISO 7783)	Class II (< 2.5 g/day/ m ²)
UV resistance - 500 h (50°C, 50 W/m ²)	Compliant
Atmospheric humidity during application	15 - 90 %
Peeling (N/mm ²)	70
Shear strength (N/mm ²)	40

SAFETY & PRECAUTION

- ❖ Do not breathe dust/fume/gas/mist/vapor/spray
- ❖ In case of improper ventilation wear respiratory protection
- ❖ Wear protective gloves/clothing and eye & face protection
- ❖ **If in eyes:** Rinse cautiously with water for several minutes, Remove contact lenses, if present & easy to do. Continue rinse.
- ❖ **If on skin or Hair:** - Take off immediately all contaminated clothing. Rinse skin with water & shower