



IPA Dichtschlämme

Crystalline, Cementitious WATERPROOFING

Product description

IPA Dichtschlämme is a premixed, chemically active cementitious composition designed to protect concrete and masonry from water-induced chemical attack, and to stop the passage of water through the material. IPA Dichtschlämme is cement based material for waterproofing with thin layers from positive (direct water contact) or negative side. The powder consists of Portland cement, specially treated silica sands and special active mineral additives.

Application areas

- substrate: concrete or masonry
- active and passive waterproofing and protection against water and moisture
- foundations, slabs, retaining walls, construction joints,
- sewage treatment plants, swimming pools,
- backfilled structural elements, etc.
- drinking water structures

Product Technology:

IPA Dichtschlämme

- Penetrates deeply into capillary system of concrete and chemically neutralizes and seals from within
- Seals hairline and shrinkage cracks
- prevents seepage and efflorescence at its source,
- Completely effective against negative or positive high hydrostatic pressure
- requires no moisture barrier membrane or clay panel systems
- forms a decorative, non-flammable, inorganic surface for concrete and masonry,
- can be applied with a brush, but is not a paint
- Can be applied to moist or "green" concrete
- protects reinforcing steel and wire mesh
- is completely effective against high hydrostatic pressure with a two-coat application suitable for most interior below-grade waterproofing applications.
- The active mineral additives are drawn into the pores by capillary action, insoluble crystals are formed,
- paste and crystals chemically neutralize and seal the inner structure of the treated surface.
- becomes because of its superior, chemical and mechanical integration with treated substrates, an integral part of the existing structural material.
- Zero VOC – IPA powder products contain zero volatile organic compounds and are safe for use both outdoors and in confined indoor spaces
- Zero VOC – IPA powdered products contain zero volatile organic compounds and are safe for use outdoors and indoors

Benefits

- Double waterproofing protection by chemically sealing the internal structure of the masonry as well as sealing the surface with a dense, watertight cement coating.
- Chemically interacts beneath the surface of the masonry to neutralize the ever-present salts that cause efflorescence.
- Cementitious material, offering indefinite life expectancy and superior adhesion characteristics.
- Integrates with the masonry and seals so effectively that seepage can be stopped through interior application, eliminating costly excavation and backfill operations.
- Non-flammable.
- Can be applied without special equipment or special skill.
- Inorganic material, not subject to attack by fungus.
- Surfaces are impervious to alkaline and detergent attack; they may be scrubbed without fear of discoloration or surface damage.

Coverage

A mixture of 100kgs IPA Dichtschlämme produces enough material to treat 50 m² of surface per coat. This must be treated as a guide only, since actual coverage may vary somewhat due to the porous nature of the surface.

First coat coverage is normally somewhat less than the above figure, while second coat coverage is greater. IPA Dichtschlämme is available: 25 kg bag

Preparation and Application:

For IPA Dichtschlämme to function as intended, the surface must be free of dirt, previously applied paints or sealers, or any loose material. Wire brushing, sandblasting, waterblasting, or other measures may be required. If acid washing is used, surface must be repeatedly flushed with water to remove all trace of acid.

IPA Dichtschlämme must be applied while surface is still damp. Failure to prepare surface will prevent successful Operation, and will negate guarantee.

IPA Dichtschlämme must not be applied to surfaces from which water is running. Cracks, voids, sizeable holes, and other localized points of leakage must be sealed prior to treatment with IPA Dichtschlämme. Do not attempt to bridge cracks in excess of 1mm wide. Consult sales engineer or product application guide for product recommendations and suggested repair procedures.

IPA Dichtschlämme

CRYSTALLINE, CEMENTITIOUS WATERPROOFING

Mixing prescription for IPA-Slurry

1. Put 5l of water and pour 25 kg of IPA Dichtschlämme in a clean container and mix thoroughly to achieve a creamy slurry for at least five minutes. The wished consistency can be adjusted by addition of water.
2. Apply slurry within 1 hour of mixing. Saturate surface with water immediately prior to application of IPA Dichtschlämme and allow excess water to run off. This is extremely important; IPA Dichtschlämme will not give desired result unless masonry surface is saturated with water. Brush apply IPA Dichtschlämme working material into surface pores. If the IPA Dichtschlämme seems too thick for efficient application, add small amount of water to the mix. Achieve further dilution, if necessary by putting more water on the surface being treated.
3. Material may alternatively be spray applied, but must be worked into pores with a brush. Spraying tends to bridge pores and hairline cracks. IPA Dichtschlämme must be worked into the surface for proper result.
4. IPA Dichtschlämme treatment is normally a two-coat process. Second coat may be applied as soon as first coat has set (usually about 1 1/2 hrs). When unusually great hydrostatic pressures are anticipated, a third coat may be necessary. Two coats of IPA Dichtschlämme will prevent seepage up to 0,5 bar (5m of water). Three coats provide protection to 3bar (30m of water).

5. IPA Dichtschlämme may be successfully applied at any temperature above freezing, if the temperature is rising.

Limitations:

IPA Dichtschlämme will not bridge cracks larger than 1mm.

IPA Dichtschlämme may not be successfully applied to surfaces through which water is leaking. Associated IPA products are available for stopping leakage.

Consult application guide or sales engineer for product recommendations and repair procedure.

IPA Dichtschlämme is designed for application on cementitious materials

Version 1906