

Ressi Polymer is a concentrated, high solids latex bonding agent designed for use with Various cementitious Resrichem Decorative concrete products to increase their compressive strength and bond strength with the existing substrate. **Ressi Polymer** significantly increases the water resistance and natural strength of grouts in overlay systems and ensures adhesive bonds to existing concrete, masonry, wood or metal surfaces. Extremely flexible, it can be used as a bonding agent (primer) or mixed with cement and similar products. By mixing **Ressi Polymer** with cement paste, every water molecule is coated with a "film" which slows down evaporation thus enabling cement to get completely hydrated and for a longer period.

When used as a concrete admixture, **Ressi Polymer** increases water resistance in steel reinforced concrete to help eliminate rebar oxidation that weakens steel reinforced concrete structures.

APPLICATIONS

- ✓ Overlay Systems.
- ✓ Concrete Admixture.
- ✓ Hydraulic Cement Admixture.
- ✓ Plaster Adhesive.
- ✓ Bridge Deck Overlays.

ADVANTAGES

- ✓ Increased adhesion to different substrates including concrete, glass, steel, etc.
- ✓ Excellent water resistance
- ✓ Increased resistance to chemicals products
- ✓ Increased abrasion resistance
- ✓ Reduce cracks.
- ✓ Increases freeze-thaw resistance of concrete overlay systems.
- ✓ Decreased water-cement ratio with same workability.
- ✓ It also gives a strong and flexible adhesion between the fresh and the existing concrete.

SURFACE PREPARATION

The existing concrete surface must be dry, cured (at least 30 days), not stained with grease, waxes, paints, resins, or any other substances which could prevent the adhesion. All substrates require to be prepared before application. New floors must be slightly sanded. Old floors must be scarified, acid washed or sanded to remove any residue which could get detached. Both old and new floors must be washed with high-pressure water jet machine. As for perfect adhesion, it is recommended to wash the surface using hydrochloric acid and water solution (1/8) and then rinse carefully.

MIXING

Ressi Polymer is solid in concentrate form and must be diluted before using in overlay systems. Mix **Ressi Polymer** thoroughly for at least 2 minutes. Mix 1 part of **Ressi Polymer** with 2 parts of cold water. Mix thoroughly and keep in a fresh place in a closed bucket.

Add this mix into the powder and mix with drill mixer for at least 2 minutes. The mix can be made thinner or thicker by adding more or less **Ressi Polymer** to improve workability for specific applications. Base coat applications should usually be mixed thinner than spray or trowel down applications to ease application of grout.

Keep **Ressi Polymer** cool prior to and during use. ice cubes may be used in the **Ressi Polymer** solution and also added to the mixing pail to further extend the pot life. Keep grouts and overlay mixes out of direct sunlight to keep cool. Diluted **Ressi Polymer** should be stirred periodically as some setting of the polymer will occur.

TECHNICAL SPECIFICATIONS

Solids	48%
pH	9.0 – 11.0
Toxic	Non-Toxic
Lowest application temperature	5°C
Storage temperature	Between +5°C and +35°C

PACKAGING

1, 5, 10, 15, and 25 Ltr Containers

NOTICE

In case of application on old floors, it is recommended to carry out some form of an adhesion test.