POLYWAP 9208 PRIMER EP AQUA – 2K E-CATALOG

SINGLE COMPONENT, POLYURETHANE BASED SURFACE PRIMER

DESCRIPTION FOR IT

POLYWAP 9208 PRIMER EP AQUA 2K; is a two component, water based epoxy primer. It penetrates deeply into the substrate, consolidating the surface and creating an adhesion base for insulation coatings. It can also be used on its own as a surface protecting varnish. Additionally, it can be mixed with cement based fillers to serve as an epoxy repair mortar



GENERAL FEATURES

Functions as a high performance water and moisture barrier. Easy to apply (water based). Safe, low odor, and non flammable (zero VOC / Volatile Organic Compounds content). Suitable for indoor applications. Easy to clean. Adheres strongly to surfaces including damp and green concrete, iron, galvanized steel, aluminum, glass, and wood. Possesses effective mechanical properties and abrasion resistance.

AREAS OF USE

As a primer for applications subject to negative pressure and moisture (warehouses, pools, foundations, etc.). As a primer for epoxy, polyurethane, or cement based systems. As a concrete sealing layer. As a bonding layer between old and new concrete. As a water and moisture barrier.

RESISTANCE

It is resistant to dilute acids, dilute and concentrated alkalis, cleaning detergents and disinfectants, vegetable, mineral, and animal oils, fresh water and seawater, diesel, gasoline, alcohol, and many other solvents. Furthermore, in the absence of chemical and mechanical stress, it offers continuous resistance up to 50°C in wet environments and up to 130°C in dry environments.

TOOLS USED

Hand mixer, brush, roller, spatula.

SURFACE PREPARATION

Yeni beton ve çimento sıvanın tip C25 veya minimum 350 doz olmalıdır ve sıvanın en az 21 gün kürlenmesi gerekir. Zemin betonun kopma dayanımı minimum 1,5 N/mm² ve zemin sıcaklığı minimum +10˚C olmalıdır. Zemin sıcaklığı çiğlenme noktasının en az +3 ˚C üzerinde tercihen minimum +8˚C de sabit tutulmalıdır. Eski beton ve çimento sıva yüzeyindeki eskiden kalma boya, kir, toz v.s. gibi gevşek parçacıklar kumlama, kazıma, fırçalama ile uzaklaştırılır. Yağ ve gres artıkları deterjanlı su ile temizlenir, nötralizasyon gerekiyorsa yüzey %3-4'lük hidroklorik asit veya asetik asit çözeltisi ile silinir ve su jeti ile yıkanır, durulanır. Astar uygulamasından önce zeminin tamamen kuru olmasına tercih edilse de ürün nem toleranslı olduğundan nemli yüzeylerde de iyi sonuç verir. Yüzeyi çok parlak ve emici olmayan çimento oranı yüksek betonlar, mozaik ve fayans yüzeyler hafif kumlama veya asitleme ile pürüzlendirilmelidir.

UYGULAMA

New concrete and cement plaster must be of C25 grade or have a minimum cement content of 350 kg/m³, and the plaster requires a minimum curing period of 21 days. The concrete substrate must have a minimum tensile strength of 1.5 N/mm² and a minimum temperature of +10°C. The substrate temperature must be maintained at least 3°C above the dew point, and preferably at a minimum of +8°C. Loose particles such as old paint, dirt, or dust on existing concrete and cement plaster surfaces must be removed via sandblasting, scraping, or brushing. Oil and grease residues should be cleaned off with detergent and water; if neutralization is required, the surface should be wiped with a 3–4% hydrochloric or acetic acid solution, then washed and rinsed with a water jet. Although it is preferable for the substrate to be completely dry before primer application, the product is moisture tolerant and yields good results on damp surfaces as well. High cement content concrete, mosaic, and tile surfaces that are highly glossy and non-absorbent must be roughened by light sandblasting or acid etching.

CONSUMPTION

As a primer: Apply in one or two thin coats, with a total consumption of 150 g/m².
As a water and moisture barrier: Apply in three coats, with a total consumption of 600 g/m²

WAITING TIME BETWEEN COATS

14–16 hours between coats at 20°C; a minimum of 24 hours and a maximum of 48 hours before applying the final topcoats.

STANDARD

EN 1504-2:2004 CE Certificate

POINTS TO CONSIDER

Application must strictly be avoided in temperatures above +35°C or below +10°C, as well as in rainy or windy weather. Low temperatures increase material viscosity, hindering proper surface formation and making it difficult for trapped air bubbles to escape; this affects the product's ability to spread across the floor. Conversely, high temperatures shorten the product's pot life, making application more difficult. Windy conditions disrupt uniform spreading, causing the floor to appear wavy due to the airflow. Application materials should be brought to the site 1–2 days in advance to ensure they acclimate fully to ambient conditions. For applications in cold weather, the temperatures of the floor, the material, and the environment must be adjusted to meet application requirements; otherwise, problems regarding spreading, drying, and the formation of a uniform coating surface may arise.
Multi component products, such as epoxies or polyurethanes, must be applied by professional, experienced teams. Systems such as epoxy resins and polyamide/polyamine formulations rely on chemical curing. Unlike systems that dry via air oxidation or the evaporation of volatile components such as fully polymerized water based acrylic polymers or alkyd systems their reaction times are directly influenced by environmental conditions. Low temperatures prolong the reaction time and reduce the material's fluidity, resulting in difficulties with spreading and increased material consumption.
High temperatures increase the spreading rate and promote greater uniformity; however, since the chemical reaction proceeds more rapidly, the application requires an experienced hand. The finished coating must be protected from contact with water for at least 24 hours. Sudden drops in temperature can cause the applied surface to become dull or develop a patchy appearance. Therefore, in conditions with extreme day night temperature fluctuations, application should begin early in the day and be completed early as well. Contact with water immediately after application leads to carbonation, resulting in the formation of a sticky film on the surface; in such cases, the coating must be completely removed and reapplied. Relative humidity must be monitored and should not exceed 75%. Joint locations must be determined by the relevant engineers, taking into account potential expansion and movement. Mixing must be performed using a mechanical industrial mixer (operating at 300–400 rpm) equipped with an epoxy polyurethane mixing paddle. The mixture must be transferred to a separate, clean container to ensure there are no unmixed portions of component A or B; otherwise, unreacted components remaining on the surface will fail to cure.

CLEANING

Tools and equipment used must be cleaned with water before they dry.

PACKAGING

(15 kg set) : A (Resin) 10 kg + B (Hardener) 5 kg.

STORAGE AND SHELF LIFE

It must be stored in its original, unopened, sealed packaging in a cool, dry place, protected from frost. Under appropriate storage conditions at temperatures of 15–25°C, the shelf life is 12 months from the date of manufacture.

SAFETY PRECAUTIONS

During application, appropriate work clothing, protective eyewear, masks, and gloves must be worn to ensure occupational health and safety. In particular, as the hardener components are irritating, contact with eyes and skin must be avoided, and all necessary precautions taken in this regard. In the event of contact, wash the affected area thoroughly with soap and water; do not use solvents for cleaning. Seek immediate medical attention if swallowed.Application must be carried out in well ventilated areas, and the applying company must take all necessary precautions. Contact between food or beverages and the products within the application area must be strictly prevented. Workers with known chemical allergies must not be assigned to this task. For detailed information, please refer to the product Safety Data Sheet.

LIMITED WARRANTY

The information and recommendations provided in this product data sheet are based on our own knowledge and experience. While considered reliable, they do not constitute a warranty, as the methods and conditions of product use (such as temperature, humidity, and application equipment) are beyond our control. Therefore, we declare that we are responsible for the quality of our product within its original packaging, but we are not liable for improper use or application.

TECHNICAL SPECIFICATIONS

POLYWAP 9208 PRIMER EP AQUA 2K	FEATURE
A. Component	Epoxy Resin
B. Component	Epoxy Hardener
Color	Colorless
Mixing Ratio (% by weight)	Component A: 100 - Component B: 60
Mixture Density (20°C)	1.07 g/cm³
Solids Content (Mixture)	%70
Application Surface and Ambient Temperature	+15˚C +35˚C
Service (use) pot Life (20°C)	12 hours
Surface Drying Time (20°C)	40 minutes
Full drying time (20°C)	24 hours
Full Curing Time	7 days