



Technical Datasheet

Primer for use with hot compressed air systems

PUMAPRIME HCA

DESCRIPTION

Pumaprime H.C.A. is a low viscosity solvent free epoxy primer used to seal concrete and other substrates prior to the application of liquid resin systems. Pumaprime H.C.A. is absorbed into the substrate thus isolating that which is below the primer this is as effective as the quality and duration of the H.C.A. process and the amount of primer used. When cured The Pumaprime H.C.A. can then be overlaid with relevant primer for the overlying resin system maintaining an intercoat time of no longer than 36 hours but after the H.C.A. primer is tackfree.

COMPOSITION

Pumaprime H.C.A. is a clear unfilled two pack epoxy resin of low viscosity.

BOND STRENGTH

Pumaprime H.C.A. applied to a correctly prepared substrate exhibits bond strengths in excess of concrete and failure occurs within the concrete rather than the epoxy system on test.

TYPICAL INSTALLATIONS

Pumaprime H.C.A. is used generally for the following reason:-

Due to the presence of deep seated oil, fat and grease impregnation.

H.C.A TREATMENT

Hot compressed air (H.C.A.) techniques super heat the top surface of the concrete, burning out any deep seated oil and grease. Immediately after H.C.A. treatment whilst the concrete surface is still hot apply Pumaprime H.C.A. to the slab by roller or squeegee. The extremely high slab temperatures reduces further the viscosity of the primer which impregnates into the pores of the concrete. The heat of the slab will cause a rapid curing of the Pumaprime H.C.A., locking in and consolidating the top layer of concrete thus maximising the ensuing bond for the following resin system.

SURFACE PREPARATION

Mechanically prepare the area prior to use of H.C.A. techniques this removes all surface contamination, creates an appropriate mechanical key for the following systems, and allows better access for the H.C.A. treatment and subsequent use of the Pumaprime H.C.A.

APPLICATION CONDITIONS

5-30° C Maximum moisture content of 75% RH.

MIXING

Pour the full contents of the hardener container into the full contents of the resin container and mix thoroughly with a slow speed electric stirrer for a minimum of 2 minutes.

APPLICATION TECHNIQUES

Apply by brush or roller, working the resin well into the surface. On porous surfaces apply further resin until the surface is completely wetted out. Push out the resin as thinly as possible, just leaving enough resin on the surface to give a wet appearance. Allow to cure hard before applications of the appropriate resin system. Do not allow longer than 36 hours between applications.

CURE SCHEDULE

Pot Life @ 20° C	-	20-30 mins
Pot Life @ 10° C	-	45-60 mins
Hard Dry @ 20° C	-	15-20 hours
Hard Dry @ 10° C	-	16-24 hours
Full Cure at 20° C	-	5-7 days

TECHNICAL DATA

Bond strength to BS 6319 (Pumaflo) -	40N/mm ²
Viscosity at 20°C (mixed) -	5.0 poise

HEALTH AND SAFETY

Please contact the Technical department for further details

STORAGE, MIXING & APPLICATION

The storage, mixing and application conditions can affect and specific health and safety data for this product provided in compliance with the requirements of EC Directive 91/155.

TECHNICAL ADVICE

For further information on this or any other Resdev product, please contact our Technical department.