APOLLO
CONSTRUCTION SOLUTIONS

Resin (A9493 A/B)

Resin-Bonded Economical Aggregate Surfacing Kit 2K PU

100% Solvent Free | Refurb | NEW Build | VEHICLE Traffic | FOOT Traffic | Decorative FINISHES | HARD-Wearing | 18-24 hour Cure-Time

Apollo Resin (A9493 A/B) is a solvent-free two-component aromatic polyurethane resin kit, developed specifically for creating hardwearing aggregate surfacing or flooring. It is used for bonding a wide range of dried aggregates to most common substrates, including steel and concrete, for anti-skid and decorative purposes. The system is suitable for refurbishment and new build projects for external and internal applications, including driveways, footpaths and parks.

- **Ideal for refurbishment**
- **Suitable for vehicular/heavy foot traffic**
- **Minimises project time**
- **Moisture-tolerant**
- **Suitable for bonding to steel and concrete**

Suitable for areas with high vehicular traffic: tests prove it is extremely durable

The Apollo Resin-Bonded Economical Aggregate Surfacing Kit is suitable for a wide range of applications, but is particularly ideal for driveways, footpaths and parks. In-house tests prove that this system is extremely durable and can withstand significant stress due to its high composite strength.

Minimises overall project time: fast-curing system

At Apollo, we understand that minimising project time is essential, and the Apollo Resin-Bonded Economical Aggregate Surfacing Kit has been developed with this in mind. Our fast-curing system is able to withstand heavy foot and vehicular traffic in as little as 18-24 hours, upon full cure.

Establishes excellent moisture-tolerance quickly: can withstand moisture in as little as three hours

Most contractors require an aggregate flooring system that can withstand various weather conditions. In-house tests prove that the Resin-Bonded Economical Aggregate Surfacing Kit is tolerant of moisture in as little as three hours of being laid (at 20°C).

Ideal for refurbishment projects: can be laid over existing flooring

The Apollo Resin-Bonded Economical Aggregate Surfacing Kit is suitable for creating completely new flooring or overlaying existing flooring. It can be quickly and easily laid on top of concrete or steel, which makes it an economical choice for refurbishment projects.

***NOTE

Resin bonded surfacing is typically laid on a solid base of concrete.
Steel and timber surfaces are also suitable but oily woods such as Cedar should be avoided.
Resin bonded surfacing is not porous and must be applied to non porous bases, with adequate falls in place to allow free drainage.
The choice of aggregate can be critical particularly when the surfacing is subjected to heavy vehicular traffic.
1-3mm bauxite aggregate is preferred for vehicular traffic. Granite, basalt, flints and quartz aggregates may be used for lighter trafficked areas.

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Instructions for use:

Surface preparation:

1. Concrete substrates should have maximum relative humidity of 75% before applying the resin bonded surfacing.
2. Prepare the concrete by mechanical means to produce a clean, dry and lightly textured surface, free from latencies and loose friable materials; then prime with Apollo (A1408) and allow to dry.

Mixing:

1. Mix components A & B at a ratio of 3:1 by weight.
2. Mix the resin thoroughly with a slow-speed high-torque drill and paddle for approximately 60 seconds.
3. Catalyst can be added to the system to speed up the cure-time. Please contact Apollo for details.

Application:

1. Mask area to be coated with duct tape.
2. Apply the mixed resin with a notched spreader or roller at a typical rate of:
   - 1.5mm thickness, 11m^2 per 20kg kit using 1-3mm aggregate
   - 1.0mm thickness, 16.5m^2 per 20kg kit using 0.9-1.4mm aggregate
   - Application rate will increase with larger aggregate sizes.
3. Fully blind the resin with the chosen size of kiln dried aggregate. This must be carried out immediately after the resin has been applied, with the resin still liquid.
4. Remove the duct tape before the resin gels; allow the resin to cure for 18-24 hours @ 20°C before trafficking.
5. Remove excess aggregate by sweeping or vacuum.

NB: Do not apply resin bonded surfacing if rain, fog or high humidity is expected during application and throughout the cure the of the system.
Do not apply if the resin or aggregate has become wet or damp.

Packaging:

Apollo Resin (A9493 A/B) comes supplied in poly pail/bottle kits including component A and component B. Product available in 20kg kits.

Technical Data – Component A

Base	Polyurethane	Shelf Life	6 months
Appearance	Buff liquid	Storage	5-30°C
Application Temperature	5-30°C	Environmental	See MSDS
Viscosity	5000cps	Cleaner	Solvent 3

Technical Data – Component B

Base	Polyurethane	Shelf Life	6 months
Appearance	Brown liquid	Storage	5-30°C
Viscosity	200cps	Environmental	See MSDS
Application Temperature	5-30°C	Cleaner	Solvent 3

Technical Data – Mixed Resin

Base	Polyurethane	Cure-Time	18-24 hours
Appearance	Buff liquid	Pot-Life	20 minutes
Temperature Resistance	-20 to 90°C	Cleaner	Solvent 3
Coverage	1-2L/m²	Storage	5-30°C
Application Temperature	5-30°C	Environmental	See MSDS

IMPORTANT NOTES:

Temperature and timings: All information on temperature and timings represent normal working conditions and is provided as a guideline only. However, please contact Apollo for advice if you wish to operate outside of these parameters.

Storage and handling: The product should be stored unopened in a dry condition at a temperature of 5-25°C. This will ensure the stated shelf-life. The adhesive will have a limited life once the container is opened.

Disclaimer: Apollo has taken care to ensure that the information provided in the literature is correct and up to date. However, it is not intended to form any part of a contract or provide a guarantee. Purchasers/intending purchasers should contact Apollo to check whether there have been any changes to the information since publication of the literature. Please ensure you have read the hazard labels and material safety data sheet before using this product.

Please contact your Apollo Account Manager if you require further information on Apollo Construction Solutions and/or on our product range (www.apolloconstructionsolutions.co.uk). If this specific product does not meet your exact requirements, please ask us about the product variations we offer or whether we can work with you to develop a bespoke solution (subject to volume).

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