

# Ace Flexistone

## Flexible recycled rubber and aggregate suds compliant surfacing

**Ace Flexistone** consists of a single pack aromatic moisture curing polyurethane resin blended with recycled **SBR Rubber** granules. This is mixed with natural decorative aggregates to provide a flexible hardwearing surfacing that is permeable and therefore SuDS compliant. Suitable for many applications, **Ace Flexistone** is installed directly onto an **MOT Type 3 base** and does not require tarmac or concrete beneath. When used for tree pits the flexibility of **Ace Flexistone** make it kinder to trees allowing for tree growth, whilst also being sufficiently permeable allowing for the roots to receive water.

### Benefits

- Outstanding water permeability
- Reduces or eliminates planning permission requirements
- Flexible, slip resistant surfacing
- Low maintenance, almost no weed growth
- Soft under foot
- No accelerator required
- Meets accessibility requirements for wheelchair, prams, and buggies



### Description

**Ace Flexistone** is a flexible recycled rubber and decorative aggregate system. Different bespoke blends can be designed to suit your individual project. The environmentally friendly system contains the equivalent of 16 tyres per m2 that would have otherwise gone to landfill.

Suitable for wheelchairs, prams and buggies make it an ideal surface for public access areas including cycle paths, canal and river paths and walkways in country parks. Suitable for horses and soft underfoot, it is a great choice for bridle path surfacing.

## Quality and Testing

**Ace Flexistone** is manufactured in accordance with UKAS ISO 9001 & ISO 14001

## Suggested base Build Up

	Pathway/Cycleway/Bridle path	Pathway/Cycleway/Bridle path
<b>Ace Flexistone</b>	35mm	25mm
<b>Type 3 Sub-base</b>	150mm type 3 (non-frost susceptible) laid by others in well compacted layers to SHW clause 805 or 4/20mm & 4/40mm crushed aggregate to BS EN12620	Existing asphalt tarmac or concrete base

The above information is for guidance only and the contractor or specifier should satisfy themselves that the construction of the base build up is suitable for the ground conditions and the traffic expected.

## Application Conditions & Performance

The optimum application temperature range for **Ace Flexistone** is between 15 deg C – 30 deg C with 50% humidity. **Flexistone** accelerator may be added to the mix when temperatures fall below 5 deg C. Do not install below 1 deg C.

**Ace Flexistone** binder is based on Aromatic PU and therefore may be subject to some initial yellowing & discolouration. This will occur over time due to abrasion and further UV exposure.

## Working Time and Temperatures

Temperatures can affect both the curing time as well as working time. Increased temperatures will speed up these processes, lower temperatures will decrease both. **Ace Flexistone** will need to be protected until fully cured, this will be between 6 – 24 hours dependent on climatic conditions. Do not apply **Ace Flexistone** in rain or any standing puddles as this will cause the resin to bloom and cause a weakness in the binder strength around the particles.

Full strength will not occur for 3 days, therefore if the surface is to receive heavy use, it should not be trafficked for 3 days to protect the surface.

## Mix design & coverage

### 1m2 @ 25mm onto Concrete or Tarmac base

Ace Flexistone Binder	3.3 kgs
Recycled Rubber Granules Black	12.5kgs
Decorative Aggregate	12.5kgs

### 1m2 @ 35mm onto well compacted stone base

Ace Flexistone Binder	4.6kgs
Recycled Rubber Granules Black	17.5kgs
Decorative Aggregate	17.5kgs

## Application conditions & performance

- When applying onto a non-porous base any areas of puddling should be eradicated by drilling through the base with a 10mm drill bit, this is to ensure no standing water.
- Ensure substrate is laid to falls and that run off is to either soft landscaping or any other means of drainage. This process is unnecessary when applying onto permeable surfaces such as MOT Type 3.
- Mix the **Ace Flexistone** binder with the recycled rubber granules and decorative aggregate in the proportions of the mix design in the table in this document depending on the substrate to which it is applied.
- Place the Recycled Rubber granules along with the decorative aggregate into a forced action mixer, mix for approximately 3 minutes. It is essential to time the mixes and ensure the same time is given to each mix, failure to do so may result in different colour shading between batches.
- Pour the mixed components onto the levelled and compacted substrate.
- Level the mix to the required thickness by rake, screed rail and bar or trowel.
- Smooth and compact. This can be achieved with either a roller or trowel.
- Once installed, protect the area until it is fully cured. The curing time will vary according to temperature but will typically between 6 – 24 hours. Refer to “**Working Times & Temperatures**”.

## Contractors

**Ace Flexistone** Surfacing System is a specialist product and must only be applied by specialist installers. Do not apply or allow it to be applied by contractors who do not possess the necessary skills and experience. You should consider appointing an Ace Resin Ltd Approved Contractor.

## On Site Technical Support

Ace Resin representatives are happy to offer on- site technical support and will offer general indication of the correct method of installing an Ace Resin Ltd product. It must be remembered that Ace Resin Ltd is a manufacturer and therefore it's the responsibility of the contractor and his employer to ensure he is aware of and implements the correct practices and procedures to ensure the correct installation of the product and that liability for its correct installation lies with the contractor and not with Ace Resin Ltd.

**Please refer to Ace Resin Ltd latest mix blend sheets for all Acebound Blends.**

## Shelf Life

Shelf life of **Ace Flexistone Resin** is 6 months when kept sealed; aggregates and recycled rubber granules have an unlimited shelf life if kept dry and free from condensation. Store materials in clean, dry, frost-free warehouse

## Cleaning Tools

Tools and equipment may be cleaned with AceBound Tool Cleaner/ Trowel Finishing Aid, which will remove uncured resin. White Spirit is not acceptable.

## Health & Safety

**Ace Flexistone** is non-hazardous in its cured state Please refer to **Ace Flexistone Safety Data Sheet**.

The information detailed in this leaflet is liable to modification from time to time in the light of experience and of normal product application, and before using, customers are advised to check with Ace Resin Ltd, quoting the reference number, that they possess the latest issue. Any person or company using the product without first making further enquiries as to the suitability of the product for the intended use does so at his own risk, and Ace Resin Ltd can accept no responsibility for the performance of the product, or for any loss or damage arising out of such use.