

# Denspartic™ AB

## Polyaspartic Floor Binder

### DESCRIPTION

**Denspartic™ AB** is a two component, solvent free and low emission, self levelling, floorcoating which cures to a tough yet soft and elastic material with a hard wearing, easy to maintain surface and a tolerance to a wide range of chemicals.

**Denspartic™ AB** is supplied ready for use but can be further extended with **Dencoat™ Colour Quartz**.

### FIELDS OF APPLICATION

**Denspartic™ AB** is used as a body coat and forms the basis of a 2-4 mm flooring system which find use in applications such as:

- Hospitals and retirement homes
- Schools
- Libraries
- Offices
- Cafeterias and canteens
- Shops and supermarkets

### SUBSTRATE

All substrates must be structurally sound, clean and dry and free from oil, grease and loose material and any other contamination which might impair adhesion.

Mechanical preparation such as captive shot blasting, scarification, and diamond grinding for edge work should be used to produce a substrate surface profile suitable for the application of a resin finish.

The tensile strength of the substrate should exceed 1.5 MPa. The residual moisture content should be less than 4%.

**Denspartic™ AB** should be applied when substrate temperatures are constant or falling to minimise the risk bubble and void formation due to expansion of air within the substrate

when temperatures are rising. This is particularly important to note on external applications.

The curing reactions are influenced by the ambient, material and substrate temperatures. Low temperatures lengthen the pot life, open- and curing times. High temperatures shorten pot life, open- and curing times. The temperatures should not fall below the minimum stated until the material is fully cured. The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least a further 24 hours (at 15°C).

### APPLICATION

**Denspartic™ AB** is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both A and B components to a temperature of approximately 15 to 25°C. Pour the entire contents of part B into the container of part A. DO NOT MIX BY HAND. Mix with a mechanical drill and paddle at a very low speed (ca. 300 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. DO NOT WORK OUT OF THE ORIGINAL CONTAINER. After proper mixing to a homogeneous consistency pour the mixed parts A and B into a fresh container and mix for another minute. If **Denspartic™ AB** is to be extended with sand, the sand should be added to the mixed components under continuous mixing until uniformly distributed.

**Denspartic™ AB** is poured onto the prepared substrate and spread with a notched trowel, or spreader (rubber or steel). Bubbles should be removed by rolling with a spiked roller. The curing time of the material is influenced by the ambient, material and substrate

temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application temperature should not fall below the minimum. The temperature of the substrate must be at least 3K above the dew point both during the application and for at least 8 hours after application (at 15°C).

### CONSUMPTION

**Denspartic™ AB**: Typically 1-2 kg/m<sup>2</sup> depending upon surface texture and porosity of the substrate concrete. Very porous substrates may require double priming. **Dencoat™ Quartz**: Typically 4 kg/m<sup>2</sup> Refer to System Data Sheet.

### CLEANING AGENT

Tools must be cleaned immediately after use with **Dencoat™ Tool Cleaner** or other suitable solvent.

### PACKAGING

**Denspartic™ AB** is supplied in 7.5 kg, 190 kg or 900 kg units. **Denspartic™ AB** is used with **Denspartic™ Hardener** in appropriate quantity.

### SHELFLIFE

Minimum 12 months stored in original containers under dry conditions at a temperature between 15-20°C. Do not expose to direct sunlight.

## Technical data for Liquid material

Property	Method	Values
Mixing Ratio A:B		10 kg : 6.66 kg
Mixed density		1.10 kg/l
Mixed Viscosity at 23°C	Brookfield DV-II	1000 cP
Working time at 23°C		20 minutes
Ready for traffic at 23°C		3 hours
Fully cured 23°C		24 hours
Substrate temperature		Min 5°C max 30°C
Max relative humidity		Max 85%

## Technical data cured material

Property	Method	Values
Thickness		2-4 mm
SHORE D hardness	DIN 53505	75
Tensile strength	DIN 53504	
Elongation at Break	DIN 53504	>50%
Crack bridging ability		1 mm
Temperature resistance		Max 90°C
Water penetration		Impervious
Chemical Resistance		See separate datasheet
Adhesion to concrete	BS/EN 24614	>1.5 MPa
Abrasion resistance (Taber)	EN 1504-2	<50 mg
Impact resistance	EN 1504-2	Class II
Fire classification	EN 1504-2	E <sub>fl</sub>



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