# Vuba Flex Binder 4020

## Technical Datasheet

Vuba Flex Binder 4020 is a moisture curing, solvent-free, unpigmented, medium viscosity polyurethane (PU) binder. It is designed for use in the installation of in-situ rubber safety surfaces and decorative EPDM systems.

### Product Description

**Fields of Application:** Vuba Flex Binder 4020 is used as a moisture curing binder for recycled rubber and coloured EPDM granules. It is suitable for hand installation of small in-situ surfaces such as playgrounds, walkways, and multi-use areas.

**Properties:** With its medium viscosity, Vuba Flex Binder 4020 provides excellent mixing characteristics and minimal binder run-off. It offers a working time of approximately 15–45 minutes depending on temperature and humidity, making it ideal for smaller installations.

The binder may experience natural yellowing when exposed to UV light; however, this has no effect on its mechanical performance. Colour shifts may occur in certain EPDM colours such as blue or grey due to binder yellowing. This discolouration typically reduces over time through weathering and surface wear.

### Colour

Honey coloured.

### Storage

- Store in original unopened containers between 5°C and 25°C in a dry environment.
- Avoid direct sunlight and check the 'best before' date prior to use.

### Technical Data

| Property | Test Method | Value |
|---|---|---|
| **Density (23°C)** | DIN 53217 | Approx. 1.07 g/cm³ |
| **Viscosity (23°C)** | - | Approx. 3800 mPas |
| **NCO Content** | DIN 53185 | Approx. 9.0 % |
| **Ready for Foot Traffic (SBR mat, 23°C / 50% RH)** | - | Approx. 24 hours |
| **Substrate/Application Temperature** | - | 15–30 °C |
| **Permissible Relative Humidity** | - | 40–75 % |

### Packaging Information



25 kg plastic pails
or 220kg drums

### Cleaning

Clean tools immediately after use with Vuba trowel cleaner or suitable alternative. Do not use water or alcohol-based cleaners on uncured binder.

### Certification

FT 1000 EUROPE'S FASTEST GROWING COMPANIES 2023 - 2025 statista

FT 1000 EUROPE'S FASTEST GROWING COMPANIES 2023 statista

The Sunday Times Hundred 2023 Britain's Fastest-Growing Private Companies

BBA Approval Inspection Testing Certification Certificate 24/7248

# Application Instructions

### Temperature

• The optimal temperature during application is between 15°C and 25°C.
• The sub-base temperature must be at least 3°C above the dew point. The required binder quantity depends on the granule size and type used.

### Typical binder usage rates:

• 2–6 mm granules: 10–14% binder
• 1–4 mm granules: 14–19% binder

### Step 1: Mix

Mix rubber or EPDM granules with Vuba Flex Binder 4020 using a forced action mixer for 3 minutes until a uniform blend is achieved.

### Step 2: Compact

Apply by hand and compact thoroughly using a trowel or roller to ensure a strong surface finish.

### Step 3: Prime

Ensure joints are primed and compacted correctly to prevent weak spots or cracking. The use of a suitable smoothing agent can assist in achieving an even surface.

Granules must be completely dry before mixing, as moisture will accelerate curing and may result in foaming or poor mechanical strength.

### Substrate Condition

• Surfaces must be dry, clean, structurally sound and free from dust, grease, or contaminants.
• Sub-bases should meet the requirements of DIN V 18035-6 regarding compaction, flatness, gradients, and permeability.

• Concrete bases must be fully cured and primed appropriately.
• Asphalt surfaces should be primed with an approved solvent-free primer.
• Substrate tensile strength should be at least 1.0 N/mm² and residual moisture must not exceed 4%.
• The temperature of the sub-base must remain at least 3°C above the dew point.

### Safety

Vuba Flex Binder 4020 is non-hazardous in its cured form. Refer to the product Safety Data Sheet for guidance on handling, protective measures, transport, and waste disposal.

The information provided in this datasheet is based on current knowledge and experience. All technical data are guide values and should not be used as a basis for specifications. Users are responsible for ensuring suitability under actual site conditions.

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VUBA SURFACES

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