Vuba Flex Binder 4090

Technical Datasheet

Vuba Flex Binder 4090 is an aliphatic, UV and colour stable, moisture curing polyurethane (PU) binder. This single-component, solvent-free formulation offers medium viscosity and long-term colour retention for high-performance EPDM safety and recreational surfaces.

Product Description

Fields of Application: Vuba Flex Binder Vuba Flex Binder 4090 is designed for use with coloured EPDM granules in hand-applied, in-situ installations. Typical uses include playgrounds, sports surfaces, walkways, and areas requiring enhanced UV stability.

Properties: The medium viscosity allows for excellent wetting of EPDM granules, reducing binder run-off and improving mix uniformity. Its aliphatic chemistry provides superior UV stability, helping to minimise long-term yellowing or colour shifts.

Colour

Colourless.

Storage

- Store in unopened containers between 5°C and 25°C.
- Protect from moisture and direct sunlight.
- Refer to the product label for shelf-life details.

Safety

Vuba Flex Binder 4090 is non-hazardous when cured. Consult the Safety Data Sheet for handling and disposal guidance.

The information in this datasheet reflects current knowledge and practice. All values are guide figures only. Installers must verify suitability for specific site conditions.

Technical Data

Property	Test Method	Value
Density (23°C)	DIN 53217	Approx. 1.07 g/cm³
Viscosity (23°C)	-	Approx. 4900 mPas
NCO Content	DIN 53185	Approx. 6.15 %
Ready for Foot Traffic (23°C / 50% RH)	-	Approx. 32 hours
Application Temperature Range	-	15–30 °C
Permissible Relative Humidity	-	40–75 %

Packaging Information



25 kg plastic pails
or 220kg drums

Cleaning

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

Certification

CERTIFICATE 24/7248

Application Instructions

Temperature

• Apply Vuba Flex Binder 4090 at temperatures between 15°C and 25°C.
• The substrate temperature should remain at least 3°C above the dew point.
• Moisture can accelerate curing and negatively affect surface quality.

Step 1: Mix

For EPDM layers, mix 1–3.5 mm EPDM granules with 20% binder using a force action mixer for 3–5 minutes to achieve a homogeneous blend.

Step 2: Compact

Apply the mixture using a trowel and compact thoroughly. Mechanical compaction may be used for additional density.

Step 3: Prime

When joining to previously cured sections, prime the edge using Vuba Flex Binder 4090 before applying the fresh mix.

Ensure granules are fully dry before mixing. Moisture will trigger premature curing and may result in foaming.

Substrate Condition

• Substrates must be dry, clean, structurally sound and free from contaminants such as dust, oil, grease or paint.
• Bound bases must comply with DIN V 18035-6 regarding compaction, flatness, gradient, and permeability.
• Concrete should be fully cured, dry and primed correctly.
• Residual moisture must be below 4%. Asphalt requires a solvent-free primer before installation.

Cleaning

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

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VUBA SURFACES

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 24/7248