

Rubber mulch: two-layer system

Colour coated and plain black rubber mulch produced from recycled tyres, installed as a two-layer system.

Product description

CONICA LTD supplies colour coated and plain black rubber mulch, SBR granules and polyurethane binders for the installation of impact absorbing playground surfaces and for the creation of other decorative landscaping features.



Fields of application

Used as a tested bonded system for many applications. Often used as an alternative to traditional bark.

Common uses:

- Playground safety surfacing
- Tree pits
- Decorative landscaping
- Safety walkways
- Equestrian and dressage

Benefits:

- Simple to install
- Significant material savings vs. single layer
- Low maintenance
- Excellent water permeability
- EN1177-2018 HIC certified

Technical Data

Specification	Thickness (mm) SBR + mulch	CFH (m)	SBR (CT4010) per m ²	SBR binder per m ² (kgs)	Mulch per m ² (10kg bags)	Mulch binder per m ² (kgs)
	50 (20+30)	1.35	11.0	0.8	13.2	2.4
	60 (30+30)	1.60	16.0	1.2	13.2	2.4
	70 (40+30)	1.88	22.0	1.7	13.2	2.4
	80 (50+30)	2.06	27.0	2.0	13.2	2.4
	100 (70+30)	2.38	38.0	2.9	13.2	2.4
	120 (90+30)	>3	49.0	3.7	13.2	2.4
Tested to the strict requirements of EN1177-2018 for Critical Fall Height						
Test Certificates	<p>Test certificates can be requested from Customer Services.</p> <p>Test certificates are only applicable where ALL the constituent components have been purchased directly from CONICA and the surfacing has been mixed and installed according to CONICA instructions. Please contact Customer Services for more information.</p>					
Stability and ecology	<p>Please refer to our technical bulletin on the use of recycled black rubbers.</p>					
Above figures are guide values and should not be used as a basis for specifications						

Application Methods

Bound system

The materials must be bound with an approved CONICA polyurethane binder in accordance with manufacturer's instructions.

The system utilises 4-10mm SBR granules (CT4010) for the impact absorbing base layer, installed at varying thicknesses, and a top layer of rubber mulch, installed at 30mm.

Additionally, as the base layer will not be exposed to UV light, it should be installed using our CONIPUR 4020 standard binder, at just 7.5% (binder to mulch weight).

The rubber mulch should be mixed with the binder at a ratio of minimum 1.8kgs per 10kg bag of rubber mulch. **For higher use areas, a minimum 2.0kgs of binder per 10kg bag of rubber mulch should be used.**

The tested and recommended binder for the rubber mulch wearing layer is CONIPUR 4051. However, it is also possible to other CONIPUR binders.

The materials must be accurately measured and thoroughly mixed in a force action pan mixer for a minimum of 3 minutes before application.

Once mixed, pour out, level to the required thickness by rake and screed bar, then smooth and finish using a trowel, before compacting with a roller. CONICA smoothing agent should be used to lubricate tools.

Following installation, the area needs to be protected until fully cured. Curing periods vary according to climatic conditions and choice of binder type but typically can be between 6 and 24 hours.

Full strength of the surface will not be realised for 3 days after installation so for heavily used areas it is advisable to restrict the use during the first 3 days.

Avoid any installation during periods of rain, in standing puddles of water. Optimal climatic conditions for a standard cure time are between 15°C – 30°C and 50% relative humidity. Working outside of these conditions may affect both the cure time and workability of the binder. When working in temperatures below 5°C, ACCELERATOR 10 or 15 may be used.

Please contact CONICA Ltd. technical services on uktechnical@conica.com for further information.

Pack size

Standard 10kg bags, ex stock or bulk bags can be produced to order depending on application. All CONICA binders are available in 25kg kegs and 220kg drums.

Storage

Keep dry if the material is going to be used as a bound system.

Safety precautions

Rubber mulch is non-hazardous in its cured condition. For protective measures, transport regulations and waste management, please refer to the Material Safety Data Sheet.

Disclaimer

The colour integrity of rubber mulch cannot be guaranteed and will fade if subjected to high levels or foot traffic and/or UV light. To ensure that you are installing the correct system for your particular project, please contact Technical Services.

Please note

Where possible, rubber mulch orders will be fulfilled from one production batch. Where this is not possible, the installer MUST mix the supplied batches in order to achieve colour consistency throughout the installation.

Rubber mulch is NOT suitable for nurseries or other play areas where the design requires users to crawl.

Whilst rubber mulch is entirely suitable for use as a playground surface, it will wear more quickly than a coloured wet pour surface. Therefore, it is recommended that areas of very high use (e.g. below swings, adjacent to roundabouts, at gateways and at the base of slides etc) are completed using a wear pad of coloured EPDM.

Standard colours

Six standard colours are available from stock* and any combination can be mixed on site. Plain black is also available on request.

