

Suprasec 7112[®]

Crumb Rubber Binder

Revision Number: 0

PRODUCT DESCRIPTION

Suprasec 7112 is a moisture curing, MDI based polyurethane prepolymer.

This product is a high strength, flexible, durable polyurethane elastomer binder with excellent adhesion to most commonly available shredded or crumbed rubbers.

This product has been found suitable for manufacture of shredded or crumbed rubber underlays and mats for use in the following areas: hockey fields, tennis courts, golf tees, bowling greens, baseball fields, soccer pitches, running tracks, horse parade rings, horse float resilient flooring, horse stables, horse racetrack crossovers, stair base protections pads, playground shock absorption pads, high resiliency carpet underlay, door mats, resilient flooring, flooring, pool surrounds and a variety of other applications.

Note

Not all shredded or crumbed rubbers may be suitable for use with this product. Checks should be made to confirm compatibility and durability.

Products made with Suprasec 7112 will discolour with exposure to UV light (including sunlight). Users should make their own tests to determine the suitability of this product for their purposes. The addition of antioxidants and UV stabilizers into topcoats are known to delay the onset of discolouration. Please contact the Huntsman Polyurethanes Technical Centre for a recommendation.

TYPICAL LIQUID PROPERTIES at 21°C

Appearance:	Clear to cloudy liquid
Non-Volatiles:	100%
Viscosity (Brookfield):	3500 mPa s
Specific Gravity:	1.10
NCO Content:	9.5%
Full Cure:	24 to 72 hours

APPLICATION INSTRUCTIONS

Binder ratio and shape of the rubber particles have a large effect on the performance of cured articles. In general at a given binder level, the use of fibrous shaped rubbers

results in softer products with lower tensile strength than that gained using granular rubber particles.

Surface Preparation

Mats made using this product for outdoor surfaces should be laid in dry weather, onto dry substrates. This product may be laid on concrete, asphalt or well rolled crushed rock bases. Concrete surfaces require priming using this product diluted with dry hydrocarbon solvent. This product will adhere directly to asphalt provided it is clean, dry and free from surface oil or water. The asphalt should be aged at least 4-6 weeks before the binder/rubber mix is applied. On crushed rock surfaces, testing should be done to establish the suitability of the mat for the application at hand.

Mixing

Dry rubber granules, blended with the binder in a force blender or agitator for 3-5 minutes until completely homogenised.

Application

Completely wet out rubber mix is processed into a level bed by hand tamping or mechanical pavers to evenly compact the mat to the desired thickness. For most applications, the layer is generally processed continuously to result in a seamless mat. If interruption is necessary, the leading edge of the mat previously laid should be primed prior to recommencement to prevent cracking at a later date.

Open Time

The open time of this product when mixed is dependent on temperature, humidity, moisture content of the rubber and a variety of other factors. In general, mixed product without catalyst will remain workable for up to two hours.

Do not attempt to lay the binder/rubber mixture once the mix has been significantly stiffened.

Do not interrupt the mat during cure by further work or traffic as this will lead to cracking in service.

Clean-Up

Tools and equipment may be cleaned using solvents such as Xylene, Mineral Turpentine or White Spirits while the

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binder is uncured. Cured product may be removed by scraping or the use of a strong solvent such as NMP.

PACKAGING

Suprasec 7112 is supplied in 220kg drums.

STORAGE

Store in cool, dry place. Under normal conditions (20-25°C) a shelf life of 9 months is expected in unopened containers.

This product is a moisture curing polyurethane binder and as such is affected by all forms of water. If contact with moisture or water occurs, the drums should not be resealed. Reaction with water leads to gas evolution, with possible pressure build-up.

HEALTH AND SAFETY

Please refer to Huntsman Safety Data Sheet. Also refer to Technical Information PU193-1E "MDI Based Compositions : Hazards & Safe Handling Procedures".

No adverse health effects expected if good working practices and proper application equipment are used.

This product contains free isocyanate and should not be sprayed without the use of appropriate safety precautions and equipment, impervious gloves, goggles and breathing mask. This product contains only diphenyl methane diisocyanate derived polymers. Further information on handling isocyanate products is available on request.

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Important Notice

Huntsman Polyurethanes products should be used in accordance with the information contained here. Each user should read and consider this information carefully in the context of how the products will be handled and used in the workplace including in conjunction with other products. While the information contained here is Huntsman Polyurethanes' best knowledge at the date of publication, Huntsman Polyurethanes makes no representation about the accuracy of the information. If you need clarification or more information, you should contact Huntsman Polyurethanes' office directly. Huntsman Polyurethanes products are sold without express or implied warranties, other than as provided by statute, and subject to our standard terms and conditions (provided to customers and available on request). Subject to our standard terms and conditions, and any statutory provisions, Huntsman Polyurethanes accepts no responsibility (including in negligence) for loss or damage of any nature resulting from the use of Huntsman Polyurethanes' products or reliance upon the information contained here.

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