

Recovery and Development Agency Quick Contracting Invitation to Tender



BOOKLET 4

DATA PACK

FOR

**RUBBERIZED RESURFACING OF THE BASKETBALL COURT
AT THE ANEGADA RECREATION GROUND**

ANEGADA

Recovery and Development Agency

Director of Procurement

Recovery and Development Agency
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Road Town, Tortola, VG 1110
British Virgin Islands

**Invitation to Tender No.
RDA/ITT/2020/010/LCDB**

Submission Deadline:
21 December 2020
By **1000 hours (10:00am)**

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ANEGADA

The contents of this Invitation to Tender must not be disclosed to unauthorised persons and must be used only for the purposes of tendering. Please read these documents carefully before tendering.

See attached files with Technical Specifications:

1. Specification 1: EDPM Rubber Granules
2. Specification 2: Acrylic Paint
3. Specification 3: Clear Coat
4. Specification 4: Backboard
5. Specification 5: Court Layout

EPDM RUBBER GRANULES SPECIFICATIONS

PART I – GENERAL

WORK INCLUDED

Work in this section includes furnishing all labour, materials, equipment, and services required to install all poured-in-place granular rubber surfacing. It will be completed to drawing details and specifications.

RELATED WORK SPECIFIED ELSEWHERE

Poured-in place concrete, compacted crushed stone, asphalt, interlocking brick, geotextile fabric or filter cloth, marine plywood or other approved substrate & retaining walls.

SUBMITTAL

Submit full range of sample colors and finishes available & sales literature.

DELIVERY AND STORAGE

Deliver materials in manufacturer's clearly labeled, unopened containers. Store and handle in a manner, which will prevent intrusion of foreign matter and will assure protection from weather. All resins and solvents should be stored at a temperature of not less than 0 degrees C (32 degrees F).

SCHEDULING

Co-ordinate the delivery of the materials with the scheduled time of installation to insure minimum storage time at the project site.

WARRANTY

All materials under this section shall be installed by a dealer authorized by the manufacturer and shall be guaranteed by the manufacturer against defects only as described in the manufacturer's warranty to the authorized dealer. The labour and installation warranty period shall be ONE to FIVE (1 – 5) YEARS

JOB CONDITIONS:

The air temperature is recommended to be above 5 degrees C (41 degrees F) day and night. Any temperatures below this may affect the speed and quality of the installation.

PART II – PRODUCTS

MATERIALS

- **Granules** – Recycled granular or virgin EPDM or SBR rubber granules or Pure vulcanized EPDM rubber chips ranging in size 1 - 4mm. EPDM rubber shall be UV stable.
- **Binder** – Resin (Chemical Family: Aromatic (Standard Resins) or Aliphatic (UV Resins) Isocyanate). Binder shall be 100% urethane and contain no TDI. Accelerators may be used with aliphatic binders. (Aliphatic binders should be considered on indoor applications where there is UV exposure or where light-colored rubber granules are used).
- **Primer** – Aromatic or Aliphatic Resin thinned with solvent.
- **Matrix** – Resin mixed with a thickening agent, used as a base coat to allow application of rubber on vertical surfaces such as stair risers and concrete pool copings.
- **Finished Floor Properties:**
 - a. Surface to withstand 600-psi tensile stress.
 - b. Surface to be slip resistant when wet or dry.
 - c. Surface to be fungus resistant (trace to no growth).
 - d. Surface to have chemical resistance (treated surface immersed for 24 hours) so that there is no effect from oil, lye, hydrochloric acid, animal fat, grease, acetone, toluidine, alcohol, blood, chlorine, urine, detergents and insect spray.

FINISHES

- a. Two-tier system over compacted “A” Gravel or pre-prepared existing surface
- b. Base to consist of recycled EPDM or SBR (plus optional pea- stone) mix. Rubber to be no less than 80% of mixture.
- c. Base to be no installed to specified depth.
- d. Base coat binder to be used in the base layer.
- e. Base coat to dry for no less than 24 hours.
- f. Apply standard 12 – 18 mm EPDM topcoat to COLOUR specified.
- g. Area should be left for 5 days before general use.

TESTING

The system should be tested to the following standard.

- a. Hardness: ASTM D-2444 94% recovery
- b. Water Absorption: ASTM D-530 +6.5%
- c. Ultraviolet Resistance: ASTM D-3137
- d. Fungal Resistance: Trace to no growth: ASTM G-21
- e. Spread of Flame Resistance: ANSI/UL 790 (ULC-S107) Class A
- f. Accelerated: weathering no change after 2000 hours
- g. Freeze /Thaw: no change after 30 days at minus 50 in 24-hour period

HEALTH & SAFETY

- a. When using either resin or solvent products, whether during mixing or application, the wearing of protective gloves is essential. This will protect contact of the skin directly with the above materials. The gloves will be required to be changed regularly throughout the installation and enough quantities of same should be allowed for.
- b. Should any resin or solvent come into contact with the skin, this must be immediately washed off using suitable detergents and water.
- c. When troweling the product, it is recommended that rubber kneepads with Velcro straps or knee boards be used.
- d. Read all Material Safety Data Sheets (MSDS) prior to installation. All relevant MSDS should be on site during installation.

CLEAN UP

Upon completion of work in the section, remove all tools, equipment, unused materials, and debris from the site; broom clean immediate area.

ACRYLIC WHITE LINE PAINT SPECIFICATIONS

PRODUCT DESCRIPTION & BENEFITS

The demarcation lines paint should consist of 100% acrylic clear drying emulsion primer for line striping.

COVERAGE

A coverage rate of 500 to 600 lineal feet of 2-inch line per gallon is recommended.

USES

Line marking on tennis courts, basketball courts, pickleball courts, and other asphalt or concrete pavement surfaces.

COLOR

White.

SURFACE PREPARATION

The surface must be cleaned entirely of dust, dirt, debris and all loose material. If using product is being used on a new, uncoated surface, allow adequate curing time before application.

MIXING PROCEDURES

The White Line Paint can be rolled or brushed. To assure crisp lines, it is advisable to use a high-quality tape to mask lines. Remove tape as soon as paint has dried. The paint can be modified to match the exact texture of the court surface by adding silica sand.

DRYING TIME

Thirty to sixty (30 to 60) minutes under optimum drying conditions. Indoor applications are substantially affected by temperature and available ventilation and will dry more slowly.

IMPORTANT

Surface and air temperatures must be above 50°F (10°C) during application and for at least 24 hours after application. Stir before using. Do not apply when rain is imminent or forecast. Keep from freezing. Close container when not in use.

Product Data	
Type	Acrylic Emulsion
Pounds per gallon at 77°F	10.5 ± .5
% Non-Volatile Material	49±2
Odor	Ammonia
Flammability	Non-Flammable
Flash Point	None
Storage Life	One Year

CLEAN UP

Wash tools in water before material dries.

CAUTIONS

Do not store in direct sunlight or where temperatures exceed 100°F. Do not apply if rain is imminent or forecast. Keep from freezing. Close container when not in use. Refer to product Safety Data Sheet (SDS) for additional safety information and precautions.

WARRANTY

The statements made on this technical specification is believed to be true and accurate and are intended to provide a guide for approved construction practices. Manufacturer does not make, nor does it authorize any agent or representative to make any warranty, express or implied, concerning this material as workmanship, weather, construction, equipment utilized and other variables affecting results are all beyond our control. Manufacturer warrants only that the material conforms to product specifications and any liability to the buyer or user of this product is limited to the replacement value of the product only. In no event shall Manufacturer be liable for any injury, loss or damage, either direct or incidental, special or consequential, however arising, in connection with material or equipment furnished or work performed. Manufacturer shall not, in any manner, be liable for any defects, variations or change in condition in the substructure over which its products are installed.

CLEAR COAT SPECIFICATIONS

DESCRIPTION

Sport Wax Clear Coat is a ready to use, 100% acrylic, clear drying emulsion formulated as a protective topcoat for Granular Color systems.

Sizes Available

5-gallon Pail, 30-gallon Keg, 55-gallon Drum

Coverage

A coverage rate of 200-300 sq. ft. per gallon is recommended. Coverage rates may be affected by surface porosity.

USES

- Tennis Courts
- Multi-Purpose/Basketball

COLOR

Clear when dry.

SURFACE PREPARATION

Surface must be cleaned entirely of dust, dirt, debris.

MIXING PROCEDURES

Clear Coat must be ready to use. DO NOT DILUTE.

DRYING TIME

Clear Coat will be dry to the touch in one hour at 72°F

Chemical Characteristics	
Classification	Thermoplastic Acrylic Emulsion
Weight per gallon	8.5 ± .5 lbs. per gallon
Flammability	Non-Flammable
Flash Point	None
Storage Life	Keep liquid from freezing
Color	Clear when wet

APPLICATION

Recommended application is by spray (airless power spray or nap sack sprayer). A roller, brush, or squeegee may also be used. Clear Coat should be applied at the rate of 200-300 sq. ft. per gallon.

IMPORTANT

Surface and air temperatures must be above 50°F (10°C) during application and for at least 24 hours after application. Stir before using. Do not apply when rain is imminent or forecast. Keep from freezing. Close container when not in use.

CLEAN UP

Wash tools in water before material dries.

CAUTIONS

Do not store in direct sunlight or where temperatures exceed 100°F. Do not apply if rain is imminent or forecast. Keep from freezing. Close container when not in use. Refer to product Safety Data Sheet (SDS) for additional safety information and precautions.

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BACKBOARD SPECIFICATIONS

BACKBOARDS

The backboards should be 42" x 72" rectangular with a 1 ¼" thick aluminum backboard framed in a competition grade anodized aluminum framework. The backboard shall have bright white 2" border and official size shooter's square screen-printed on backboard.

Thickness of the playing surface shall be 3/16". Reinforcing ribs and flange shall be 3/4" deep and 3/16" to 1/4" thick with optional marine ply or fibre boards for further reinforcements.

Height: 48" | 121.9 cm

Width: 72" | 182.9 cm

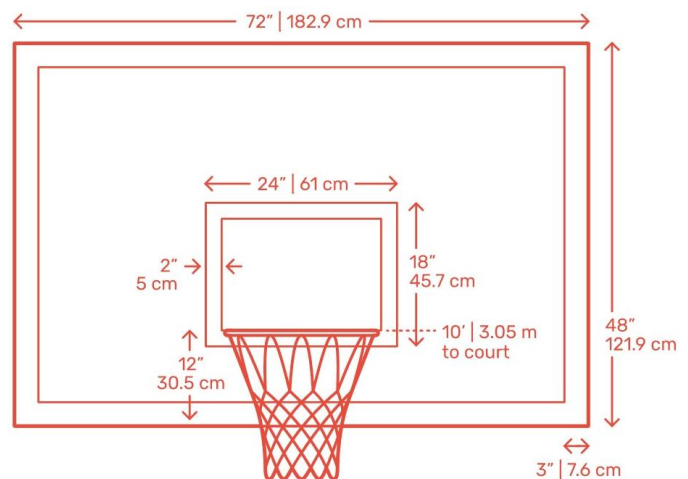
Height (Rim): 10' | 3.05 m to court

Height (Inner Rectangle): 18" | 45.7 cm

Width (Inner Rectangle): 24" | 61 cm

Border (Outer): 3" | 7.6 cm

Border (Inner): 2" | 5 cm



COURT LAYOUT SPECIFICATIONS

MARKING

This represents a college basketball court and best fits the dimensions that were on the court previously. The line marking will be laid out in chalk initially and then taped and painted. Weatherproof paint suitable for asphalt surfaces should be used. The court markings will be laid out and checked before painting.

The picture below shows the expected dimensions.

