Science of Sport: Olympic Games Tokyo 2020

Behind the scenes at the Olympic Games Tokyo 2020, Dow materials science helps power technologies that insulate, seal, connect, coat, protect and deliver sustainability gains long after the closing ceremonies. The Olympic Games venues are said to represent the proud heritage of Japan, the legacy of Tokyo 1964 and the bright future of Tokyo’s urban development.

Dow products:
- AXELERON™
- DOWANOL™
- ENGAGE™
- ELASTENE™
- DOWSIL™
- VORANOL™

Wiring

OLYMPIC STADIUM

The temporary paint used to draw bus lanes and marathon lines throughout the city uses ACRYSOL™ binder technology to ensure the streets of Tokyo return to their previously pristine condition after the games.

The paint at this multi-sport venue is formulated with DOWLEX™ Polyethylene Resins, plus offering design flexibility needed for iconic Tokyo 2020 turf endurance. Those same properties are also found in DOWLEX™ Polyethylene Resins, providing excellent dirt and water resistance for naturally occurring movement that happens in these outdoor venues.

OLYMPIC VILLAGE

In order to keep this landmark venue stable and durable aesthetic well after the badminton and fencing competitions have concluded.

OLYMPIC ROUTE NETWORK

The connecting corridor that links the International Broadcast Center with the Main Press Center uses DOWSIL™ SE 797 Sealant to give the glass façade a sleek look without the use of metal frames.

INTERNATIONAL BROADCAST CENTRE

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Post-Games: Dow’s customer Toppan Printing will collect all polyolefin-based banners and recycle them into molded products such as chairs, bricks, flowerpots and wood-plastic composite materials for benches, louver, and floors.

EVENT BUSES

A crucial aspect of any Olympic host city operation is public transportation. Helping sustain the look ofclassic Tokyo city. Dow’s silicone technology will use the ULV (ultralow volume) form of decoration for projects to provide similar aesthetic performance.

OI HOCKEY STADIUM

A winning sports performance requires a combination of strength, flexibility and durability. Dow’s elastomer properties are also found in DOWLEX™ Compounds that aid in transmission speeds and reduce the risk of signal loss.

LOOK OF THE GAMES – FABRICS

Most wraps, packaging, and banners are destined for incineration or the landfill. VERSIFY™ is an innovative polyolefin-based fabric and membrane that enables such applications to be recycled after use.

FACILITIES

TOKYO AQUATICS CENTRE

MUSASHINO FOREST SPORT PLAZA

olympic village

ARIAKE GYMNASTICS CENTRE

OLYMPIC ROUTE NETWORK

NIPPON BUDOKAN

INTERNATIONAL BROADCAST CENTRE

YUMENOSHIMA PARK ARCHERY FIELD

EVENT BUSES

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