

SAMM Sheet

Technora® Debris Protection Mesh

Product number : ATT40S

◆SAMM Sheet Quality Standard

Product width	1,240mm to 1,260mm (Approx. 4.07 ft to 4.13 ft)
Product length	50m
Product weight	≥400 g/m ² (≥1.3 oz/sf)
Thread tensile strength	≥740 N/pc. (≥166 lbs/pc)

◆SAMM Sheet Material Configuration

Technora® triaxial mesh	Product number	ATT400
	Fiber	Technora® 3300dtex
	Fiber allocation	Edge length 40mm triaxis arrangement
	Thread tensile strength	740N/pc.(166 lbs/pc)
	Binder resin	Acrylic resin
Silica sand adhesion resin	Urethane resin/ Vinyl acetate resin Acrylic resin	
Silica sand	JWWA standard No.3 silica sand	

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Sandy
Aramid
Mesh
Method

What is SAMM Sheet ?

- This product is fiber mesh sheet for preventing pieces of concrete from spalling off from the concrete bridge and reducing the risk of damage to third parties.

Material

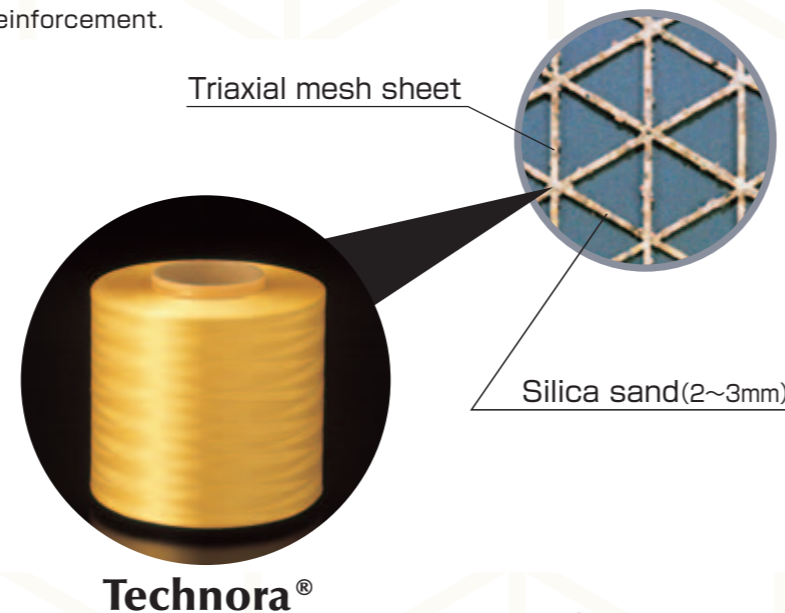
- SAMM Sheet is fiber mesh sheet that is a combination of aramid fiber bundles placed in three directions, coated with silica sand on one side.

About Technora® high performance fiber

Technora® is different from other high-performance aramids in that it has excellent primary and secondary properties, making it ideal for highly challenging applications. Since it is alkali resistant, it is ideal for use as a cement reinforcement.

◆ properties

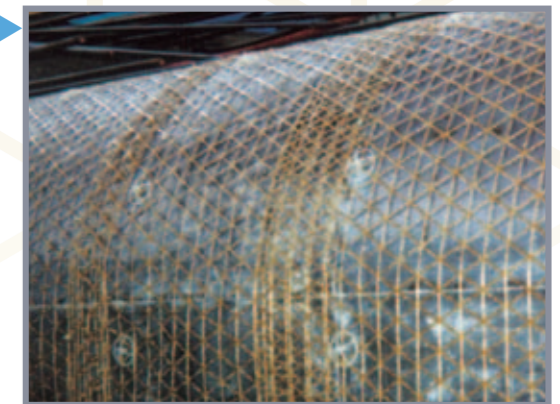
Hue	Gold
Density	1.39g/cm ³
Tensile strength	24.7cN/dtex (28g/de.350kg/mm ²)
Tensile elasticity	520cN/dtex (590g/de.7,400kg/mm ²)
Elongation at break	4.5%
Decomposition or melting temperature	500°C
moisture	2%



Application

- The SAMM method is used for bridge floor slabs, main girders, wall balustrades, and box culverts.
- It has been used for construction of new bridges, tunnels, and box culverts and also on a number of major expressways in Japan.

Placed SAMM sheet (Steel formwork)



SAMM sheet placing work (placing work on compressed diagonal material)



Placed SAMM sheet (Wooden formwork)



Finished appearance

Full-scale construction : Concrete member made using the SAMM method



What is SAMM Method ?

- SAMM Sheet is fiber mesh sheet that is a combination of aramid fiber bundles placed in three directions, coated with silica sand on one side.
- By adhering the fiber sheet with silica sand inside of formwork and placing the concrete, the fiber sheet becomes covered with silica sand inside of the concrete surface.
- The 40mm triaxial aramid fiber meshes has pseudo-isotropy, which is not easy to deform, so it makes the sheets easy to install.