

Product Guide



NANO
CONSTRUCTION CHEMICALS

CONTENTS

Introduction	<u>03</u>
Concrete Admixtures	<u>04</u>
Surface Treatments	<u>05</u>
Concrete Repairs & Finishes	<u>06</u>
Grouts & Anchors	<u>07</u>
Adhesives & Tile Grouts	<u>08</u>
Floorings & Coatings	<u>09</u>
Waterproofing & Protective Coatings	<u>11</u>
Waterstops & Joint Sealants	<u>13</u>
Speciality Products	<u>14</u>
Conversion Table	<u>15</u>

Vision

To become the benchmark manufacturing company for the construction chemicals industry in Pakistan providing innovative, reliable, world-class products and services to satisfied customers, through continuous improvement with the help of nanotechnology driven by the integrity, teamwork and creativity of our people.



Mission

Our mission is to grow and develop the company to receive national recognition of a respected major manufacturer for the construction chemicals industry as the most innovative, dedicated, and cost effective manufacturing company in Pakistan with a professional and skilled work force, fast growing distribution network, expert technical assistance and reliable customer service.



Values

Safety: The wellbeing of our employees and workers is our top priority. We cast an environment which can ensure the safety of our employees.

Strategy: Our working mechanism corresponds directly with the requirements and needs of our clients by providing client-oriented solutions at a professional level.

Passion: We are passionate in bringing new, innovative and outstanding products for our clients.

Ethics: We strongly hold the aspect of integrity, honesty and trust to make positive contribution to communities.

Teamwork: Our delivery services are constant, quality and quantity controlled, helping us capture valuable perspectives.



Quality Assurance

Nano Vision products are manufactured to meet international standards. Quality assurance system checks raw materials as well as out-going products. The traceable batch numbering system assures quick and timely response to complaints. Nano Vision products are periodically tested according to international standards by independent laboratories for 3rd party certificate.

INTRODUCTION

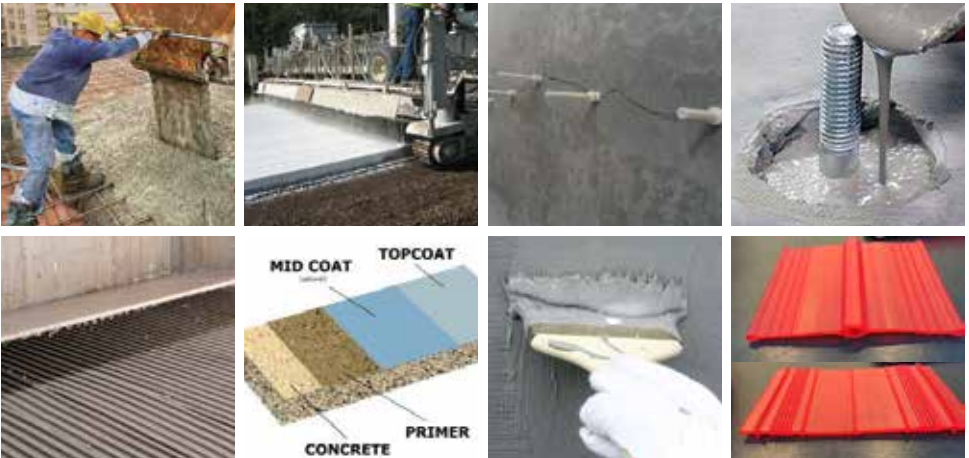
Nano Vision Private Limited (NVPL) is manufacturer and supplier of high quality specialized construction chemicals for every stage and every type of construction. Nano Vision was established in April, 2011 in Pakistan with a purpose to explore markets, developing innovative materials and providing breakthrough solutions using nanotechnology (the most advanced & upcoming technology of 21st century).

Nano Vision develops and creates new products, with the many years' experience of its team and with the consultation of world's most leading experts and organizations, in order to meet the constant market push towards more durable, more sustainable and more competitive solutions for the construction industry.

Our Products

Nano Vision offers a wide range of construction chemicals mainly comprises of:

1. Concrete Admixtures
2. Surface Treatments
3. Concrete Repairs & Finishes
4. Grouts & Anchors
5. Adhesives & Tile Grouts
6. Flooring & Coatings
7. Waterproofing & Protective Coatings
8. Waterstops & Joint Sealants
9. Speciality Products



Solutions & Services

Based on many years' experience & expertise, Nano Vision is oriented to give prompt attention, sound and viable solutions & technical services to Customers requirements and satisfaction.

Concrete Admixtures

Product Name	Description	Uses	Dosage/ Coverage	Packaging
NanoPlast P123	Water reducing concrete admixture ASTM C-494, Type A	Flatwork concrete. Architectural concrete. General purpose ready mixed concrete. Precast concrete	0.3-0.8 Ltr/100 Kg Cement	210 Ltr Drums
NanoPlast PR234	Water reducing set retarding concrete admixture ASTM C-494, Type A & D	Flatwork concrete. Architectural concrete. General purpose ready mixed concrete Mass concrete. Bridge decks. Hot weather concreting	0.3-0.8 Ltr/100 Kg Cement	210 Ltr Drums
NanoPlast SP345	High range water reducing & set retarding concrete admixture ASTM C-494, Type G	High performance concrete. Self-compacting concrete. Precast concrete. Low water/ cement ratio concrete. High early & ultimate strength applications.	0.6-2.0 Ltr/100 Kg Cement	210 Ltr Drums
NanoPlast SP456	High range water reducing & slump retaining concrete admixture ASTM C-494, Type G	High performance concrete. Self-compacting concrete. Precast concrete. Low water/ cement ratio concrete. High early & ultimate strength applications.	0.6-2.0 Ltr/100 Kg Cement	210 Ltr Drums
NanoPlast SP567	High performance. slump retaining & accelerated hardening concrete admixture ASTM C-494, Type F & G	Cold weather concreting. Hot weather concreting. Structural concrete. Bridges. High strength concrete. Self compacting concrete. Extremely fluid.	0.8-2.5 Ltr/100 Kg Cement	210 Ltr Drums
NanoPlast SP678	High range water reducing and accelerated hardening concrete admixture ASTM C-494, Type F	Cold weather concreting. Structural concrete. Concrete block. Concrete pipe and many pre-cast items.	0.8-2.5 Ltr/100 Kg Cement	210 Ltr Drums
NanoPlast AEA	Water reducing and air entraining concrete admixture ASTM C-260	Roads and bridge decks. Airport runways and taxiways and other concrete exposed to potential frost damage	0.4-0.8 Ltr/100 Kg Cement	210 Ltr Drums
NanoCrete PR1234	Water reducing & set retarding concrete admixture ASTM C-494, Type A & D	Flatwork concrete. Architectural concrete. General purpose ready mixed concrete. Mass concrete. Bridge decks. Hot weather concreting.	0.3-0.8 Ltr/100 Kg Cement	210 Ltr Drums
NanoCrete SP1345	Low dose, high range water reducing & slump retaining concrete admixture ASTM C-494, Type F & G	High performance concrete. Self-compacting concrete. Precast concrete. Low water/cement ratio concrete. High early & ultimate strength applications.	0.4-0.8 Ltr/100 Kg Cement	210 Ltr Drums
NanoCrete SP1456	High range water reducing & slump retaining concrete admixture ASTM C-494, Type G	High performance concrete. Self-compacting concrete. Precast concrete. Low water/cement ratio concrete. High early & ultimate strength applications.	0.6-2.0 Ltr/100 Kg Cement	210 Ltr Drums

Concrete Admixtures

Product Name	Description	Uses	Dosage/ Coverage	Packaging
NanoCrete SP1567	High performance. Slump retaining & accelerated hardening concrete admixture ASTM C-494, Type F & G	Cold weather concreting. Hot weather concreting. Structural concrete. Bridges. High strength concrete. Self compacting concrete. Extremely fluid.	0.5-2.0 Ltr/100 Kg Cement	210 Ltr Drums
NanoCrete SP1678	High range water reducing & accelerated hardening concrete admixture ASTM C-494, Type F	Cold weather concreting. Structural concrete. Concrete block. Concrete pipe and many pre-cast items.	0.8-2.0 Ltr/100 Kg Cement	210 Ltr Drums
NanoGuard L	Integral waterproofing liquid admixture for concrete ASTM C-494, Type G	Waterproofing admixture for all types of concrete.	0.6-1.5 Ltr/100 Kg Cement	210 Ltr Drums
NanoGuard P	Integral water proofing powder admixture for concrete and mortar	Water proofing of all types of concrete & mortars such as Structural and precast concrete. Floor screeds. Mortars and Plasters. Basements. Roof slabs and screeds. Water retaining structures. External plastering. Bathrooms. Balconies.	2-3% of Cement	10*1 kg Bags,

Surface Treatments

NanoCure C	Curing compound ASTM C-309-97, Type 1, Class A	Exterior paving. Walls. Columns and highway barriers. Residential concrete. Sidewalks, curbs and gutters. Bridge decks and parapet walls. Commercial concrete. Irrigation canals/channels.	Smooth Concrete: 5-6 m ² / L Textured Concrete: 4-5 m ² / L	200 Ltr Drums
NanoCure W	Curing compound white pigmented ASTM C-309, Type 2, Class A, AASHTOM 148, Type 2, Class A & B	Exterior paving. Walls. Columns and highway barriers. Residential concrete. Sidewalks, curbs and gutters. Bridge decks and parapet walls. Commercial concrete. Irrigation canals/channels.	Smooth Concrete: 5-6 m ² / L Textured Concrete: 4-5 m ² / L	200 Ltr Drums
NanoForm O	Low VOC, oil based concrete form release agent CE 1401.01 (17.4) & CW 03101 (5.3)	NanoForm O can be used on steel, timber, plywood and plastic form work.	20 to 60 m ² / L	200 Ltr Drums
NanoForm W	Water based form releasing agent	NanoForm W can be used on steel, timber, plywood and plastic form work.	20 to 60 m ² / L	200 Ltr Drums
NanoForm C	Low VOC, concentrated, anti-corrosive form release agent CE 1401.01 (17.4) & CW 03101 (5.3)	NanoForm C can be used on steel, timber, plywood and plastic form work.	20 to 60 m ² / L	5 lit & 30 lit pails 200 liters drums

Concrete Repairs & Finishes

Product Name	Description	Uses	Dosage/ Coverage	Packaging
NanoMortar F	Polymer-modified cementitious, finishing mortar	Skim coat on interior, exterior, vertical or overhead surfaces for filling bug holes and honeycombs. Finishing concrete surfaces with Imperfections, where a smooth finish is desired.		20 Kg Bag
NanoMortar R	Polymer-modified, cementitious, multipurpose, patching & repairing mortar	Vertical and overhead repairing of scaled and spoiled concrete. Resurfacing of damaged concrete. Repair of honeycombed surfaces. Parking structures & bridges. Retaining walls. Ceilings and sloped surfaces. Large placements.		20 Kg Bag
NanoMortar FEP	Thixotropic, epoxy resin base, fairing mortar	NanoMortar FEP is designed for application to minor imperfections in concrete surfaces. It is suitable for application from a feather-edge to 3 mm, and can be used in the following situations: Filling pinholes prior to over coating with epoxy or polyurethane. General re-profiling over large areas, up to 3 mm depth. Sealing of surface cracks in preparation for crack injection. General purpose bedding mortar and adhesive		2.5 Kg & 3.0 Kg Pack
NanoMortar REP	Epoxy base patching & repairing mortar	NanoMortar REP may be used as a patching and repairing mortar for many substrates such as concrete, cement mortar and stone. The product can be used to repair or restore profiles or precast or in situ concrete elements. Suitable for abrasion and impact resistance.		8 Kg & 15 Kg Pack
NanoInjection Resin	Low viscosity, epoxy injection resin	A low viscosity system for the injection of cracks between 0.25 mm and 9 mm wide in concrete where both sides of the crack can be sealed to prevent resin drainage. It not only forms an effective barrier against water infiltration of corrosion promoting media, but also structurally bonds the concrete sections together.		2.5 Kg & 3.0 Kg pack

Grouts & Anchors

Product Name	Description	Uses	Dosage/ Coverage	Packaging
NanoGrout	Non shrink, ready to use cementitious grout ASTM C 1107 Type C CCRD-C621-83-10.2	Machine foundations. Grouting bearing pads and plinths. Grouting under machinery base plates, stanchion bases and crane rails. Underpinning. Completely filling the void between a base plate and a substrate. It can also be used for anchoring a wide range of fixings. These include masts, anchor bolts and fence posts. Pre-Cast panels & structural supports. General concrete repairs..	2.2 kg/Ltr, 2200 kg/ m ³	20 kg Bag
NanoGrout Admix	Expanding and plasticizing grouting admixture BS 8110 Part 1, 1985,Section 8.9.4.6	Flatwork concrete. Bridge decks. Parking structures. Interior/ Exterior. Arena/Artificial skating rinks. Walls/Parapets. Storage tanks. Watertight construction. Bed grouting/Duct grouting. Non-shrink in filling and jointing. Pre-stressed cable ducts.	225 Gram / 50 Kg of Cement	10 kg Bag
NanoGrout EP	General purpose epoxy grout	Fool proof grouting in a variety of weather conditions. Precision seating of base plates. Mechanical bridge joints. Bridge bearing pads, To fill cavities in concrete. Machinery grouting. Structural Anchoring of bolt and re-bar's. Rail anchoring and grouting. Reciprocating machinery, testing equipment Heavy crane, high speed turbines, centrifuges and drop forges.	2.0 kg/Ltr, 2000 kg/ m ³	8 kg & 15 kg Pack
NanoGrout Anchor	Two component epoxy anchoring grout.	NanoGrout Anchor is used for anchoring of steel bars into concrete. brickwork. masonry and rock. Recommended applications include: Installation of starter bars. Base plate bolts. MOT Bolts. Installation of balustrades. Installation of barriers and safety fences. Installation of tie bars.	2.0 kg/Ltr	2 kg & 3 kg Pack

Adhesives & Tile Grouts

Product Name	Description	Uses	Dosage/ Coverage	Packaging
NanoBond SBR	Latex polymer bonding agent, admixture for concrete & mortar ASTM C 1059-86 Type II	Patching concrete and repairing mortar. Bonding agent for cold/ constructions joints. Concrete repairs. Thin section screeds especially for bridge decks, highways, parking decks and industrial floors. Tile fixing mortars. Tile grouting mortars on roof slab.	As a bonding agent 3-4m ² /Ltr As an admixture 1-5 % bwc	30 Ltr, can 210 Ltr drums
NanoBond LA	Latex polymer bonding agent, admixture for concrete & mortar ASTM C 1059-86 Type II	Patching concrete and repairing mortar. Bonding agent for cold/ constructions joints. Concrete repairs. Thin section screeds especially for bridge decks, highways, parking.	As a bonding agent 3-4m ² /Ltr As an admixture 1-5 % bwc	30 Ltr, can 210 Ltr drums
NanoBond EP	Epoxy base concrete bonding agent and steel corrosion protection ASTMC-C 882	For bonding new cementitious materials to existing cementitious surfaces. For use on horizontal surfaces and on vertical surfaces where mortar or concrete can be supported by form work. Ideal for extensions and repairs to concrete. Thin section screeds especially for bridge decks, highways, parking decks and industrial floors. Corrosion protection of steel and silage pit lining and protection.	0.3 to 0.5 kg/ m ²	2.5 kg & 3.0 Kg Pack
NanoTile Adhesive	High performance, polymer modified, cementitious, ready to use tile adhesive	For fixing all types of ceramics, porcelains, marbles, graintes and decorative claddings on interior/ exterior walls & floors and tile on tile applications as well as swimming pool tiling applications.	45-50 sqft/20 kg bag at 3 mm thickness	20 kg Bag
NanoTile Grout	Polymer-modified, cementitious, water resistant tile grout.	Excellent for filling of joints in ceramics, porcelains, marbles, graintes, stone mosaic and terrazzo.	14 Ltr/20 Kg Bag	10*1 Kg Bag
NanoTile Adhesive EP	High strength & chemical resistant resin based thixotropic tile adhesive.	For fixing all types of ceramics, porcelains, marbles, graintes and decorative claddings on interior/ exterior walls & floors and tile on tile applications as well as swimming pool tiling applications.	2 Kg/ m ² /1mm thickness	8 Kg pack
NanoTile Grout EP	High strength, chemical resistant epoxy tile grout. ASTMC 307,579,531	Excellent for filling of joints in ceramics, porcelains, marbles, graintes, stone mosaic and terrazzo.	2 Kg/ m ² /mm thickness	8 Kg pack

Floorings & Coatings

Product Name	Description	Uses	Dosage/ Coverage	Packaging
NanoFloor Premix	Mineral based, dry shake, ready to use floor hardener for fresh concrete BS 1881 Part 116, ASTM C 779-89	Suitable for all floors exposed to severe mechanical wear such as: Lobbies and waiting rooms of commercial and public buildings. Corridors and washrooms in institutional and public buildings. Auto showrooms and service centers. Factory and warehouse floors Commercial and industrial facilities. Restaurants and dairies. Parking garage ramps where additional traction is necessary for entering and leaving vehicles.	4-6 Kg/m ²	20 Kg Bag
NanoFloor Premix M	Heavy duty, metallic, floor hardener for fresh concrete BS 8024,BS 2050, DIN 5193	Industrial floors. Loading docks. Warehouses. Main, high traffic aisle ways Processing plants. Passenger and freight terminals. Distribution centers. Iron armored joints.	4-8 Kg/m ²	20 Kg Bag
NanoPrimer	High performance, surface primer	All cementitious substrates including damp/green concrete allowing the application of either epoxy or polyurethane self leveler or screed. To allow the early application of methacrylate waterproof coatings. Steel. Chemical resistant primer: Other damp or difficult to wet out substrates.	0.15 - 0.20 Kg/m ²	1 kg & 3 kg Pack
NanoFloor Screed	Heavy duty, chemical and abrasion resistant epoxy floor screed.	Heavy engineering plants and steel works. Electricity substations. Oil refineries and plating factories. Ware houses. Heavy loading areas. Airport and parking areas. Car show rooms and mechanical workshops.	2 kg/m ² /mm thickness	8 Kg & 15 kg Pack
NanoFloor SL	High strength, chemical and abrasion resistant, self leveling epoxy flooring	Suitable for food processing areas. Labs. Operation theaters. Pharmaceuticals. Shopping malls. Banks. Hospital etc.	1.8 kg/m ² /mm thickness	8 Kg Pack
NanoCoat SB	High performance, solvent based epoxy coating Complies with BS 476, Part 7: 1971 - Class 1	Suitable for areas subjected to foot and light vehicular traffic such as: Factories, garage showrooms, dairies, kitchens, workrooms etc. NanoCoat SB equally suitable for walls, may also be used as a sealer on resin based screeds where cleanliness is important or where particularly wet conditions are encountered.	4-5 m ² /kg	2.5 kg & 3.0 kg Pack

Floorings & Coatings

Product Name	Description	Uses	Dosage/ Coverage	Packaging
NanoCoat WB	Water dispersible epoxy coating	NanoCoat WB is used to provide a protective coating to industrial & warehouse floors subject to light traffic. an oil resistant coating for bunded areas. a wall & floor coating in the food & other industries requiring high hygiene standards, and a protective coating in sewerage treatment plants.	0.20kg/ m ² /coat. (minimum 2 coats required)	2.5 kg & 3.0 kg Pack
NanoCoat SF	Solvent free, epoxy resin coating	The low odour and absence of solvent makes NanoCoat SF ideal for use in laboratories breweries, bakeries, public areas and food preparation areas, where non tainting is essential. N-Epocoat SF may also be used as a sealer on resin based screeds where cleanliness is important or where particularly wet conditions are encountered.	NanoPrimer: 6-8m ² /Ltr NanoCoat SF: (base/top coat): 5m ² /Ltr	2.5 kg & 3.0 kg Pack
NanoCoat PU	Polyurethane sealer for floors walls and soffits	A sealer for concrete floors to provide a dust proof and more easily cleaned surface with resistance to penetration of oils and other liquids. Ideal for warehouses, car parks, light industrial buildings, etc. Ideal for use on fresh concrete as a curing compound to hardened and water resistance flooring.	8-10m ² / Ltr	5 ltr & 10 ltr Pails

Waterproofing & Protective Coatings

Product Name	Description	Uses	Dosage/ Coverage	Packaging
NanoSeal	Two part acrylic polymer modified, elastomeric, cementitious, waterproofing and protective coating.	Cast-in-place and pre-cast concrete. Brick, block, stucco, unglazed terra cotta. Porous stone, masonry substrates. Exterior or interior; Above or below grade applications. All types of structures in industrial, commercial and residential areas, coastal environments. To reface and even out variations in concrete surfaces. Waste water treatment plants To protect exposed steel rebars from corrosion. As a waterproof coating for roofs. To provide protection to concrete surfaces from carbonation and chloride attack. As a lining for water retaining structures. Potable water tanks. Basements, terraces, balconies and roof gardens. Retaining and sea walls, Swimming pools. Sealing hairline cracks, not subjected to movement. As a baking to marble, tile and granite to prevent water ingress and thus alleviate surface staining.	1.6 Kg/ m ² /mm thickness 0.8 Kg/ m ² /0.5 mm thickness	16 Kg Pack
NanoSeal HP	High performance, two part acrylic polymer modified, elastomeric, cementitious, waterproofing and protective coating.	Cast-in-place and pre-cast concrete. Brick, block, stucco, unglazed terra cotta. Porous stone, masonry substrates. Exterior or interior; Above or below grade applications. All types of structures in industrial, commercial and residential areas, coastal environments. To reface and even out variations in concrete surfaces. Waste water treatment plants To protect exposed steel rebars from corrosion. As a waterproof coating for roofs. To provide protection to concrete surfaces from carbonation and chloride attack. As a lining for water retaining structures. Potable water tanks. Basements, terraces, balconies and roof gardens. Retaining and sea walls, Swimming pools. Sealing hairline cracks, not subjected to movement. As a baking to marble, tile and granite to prevent water ingress and thus alleviate surface staining.	1.82 Kg/ m ² /mm thickness 0.91 Kg/ m ² /0.5 mm thickness	20 Kg Pack

Waterproofing & Protective Coatings

Product Name	Description	Uses	Dosage/ Coverage	Packaging
NanoSeal Flex	Elastomeric, single component, acrylic waterproofing and protective coating	Use as a waterproofing membrane to most types of buildings, walls. NanoSeal Flex has approval for the safe encapsulation of asbestos. It provides a protective waterproofing skin over polyurethane foam, protecting the PU foam from UV and weather attack. On roofs and balconies, NanoSeal Flex provides a durable, non skid, waterproof finish which will accept regular foot traffic. When applied as a multi-layer system incorporating reinforcement fabric, NanoSeal Flex is also suitable for waterproofing concrete decks subject to light vehicular traffic. NanoSeal Flex is suitable for application to many common substrates including concrete, fibrous cement products, metals, timber and bituminous membranes. Some special priming may be required.	1 Ltr/ m ² /mm thickness	16 ltr & 20 ltr pail
NanoGuard SWR	Transparent, silicone, water repellent BS 6744-92 Class A-B	NanoGuard SWR is used to provide water repellent surface with improved self cleaning properties on exterior building - brick work, concrete, cement rendering, natural or cast stone. Helps in reducing efflorescence due to soluble salts in brickwork.	0.3 Ltr/m ² approx	30 ltr pail & 210 ltr drum
NanoBitucoat	Bitumen emulsion ASTM D1227	NanoBitucoat is applied to protect concrete surfaces subject to attack from soil acid and salty water before backfilled such as basements and foundations, retaining walls. Bond breaker coating for concrete. As a adhesive for insulation materials. As a waterproofing of roof slabs.	0.5 kg/m ²	18 kg pail & 200 kg drum
NanoBitucoat R	Rubberized, bitumen emulsion ASTM D 1227	NanoBitucoat R is applied to protect concrete surfaces subject to attack from soil acid and salty water before backfilled such as basements and foundations, retaining walls. Bond breaker coating for concrete. As a adhesive for insulation materials. As a waterproofing of roof slabs.	0.5 kg/m ²	200 kg drum
NanoBitucoat HE	Highly elastic, bitumen emulsion	NanoBitucoat HE is applied to protect concrete surfaces subject to attack from soil acid and salty water before backfilled such as basements and foundations, retaining walls. Bond breaker coating for concrete. As a adhesive for insulation materials. As a waterproofing of roof slabs.	0.5 kg/m ²	200 kg drum

Waterstops & Joint Sealants

Product Name	Description	Uses	Dosage/ Coverage	Packaging
NanoWaterstops PVC	Flexible, PVC Waterstops U.S. Corps of Engineers: CRD-C 572-74 BS 2571. ASTM D-412 & ASTM D-638	Embedded in concrete, across and/or along the joint, waterstops form a watertight diaphragm that prevents the passage of fluid through the joint. Water retaining; Tanks, reservoirs and sewerage plants, Swimming pools. Elevated water towers, Oil storage tank bond walls, Culverts, canals and dams. Water excluding; Basements, Underground car parks, Buried storage tanks Retaining walls, Bridge abutments, Tunnels and subways.		100 RFT Roll
NanoSwellbar	Hydrophilic, swelling bar	Construction joints. Basements, retaining walls. Water retaining structures. Water tanks, waste water tanks. Tunnel segments. Precast concrete. Pipe penetrations. Concrete sheet piles. Box culverts. Concrete pipes.		
NanoFlex PU	Single component polyurethane joint sealant ASTM C920	The material has excellent resistance to bio-degradation due to bacterial attack in sewage tank and reservoir. Use in expansion and contraction joints on bridge decks, floor joints and construction Joints. Used on all types of commercial and residential buildings joints. Boat, yacht building, window and door frames, ducting system, especially for clean room application. Extreme bonding properties with a movement capacity of 25%.	See TDS	600ml sausage
NanoFlex PS	Two part, polysulphide joint sealant, BS 4254-1983 BS 5212-1990, ASTMC-920	The material has excellent resistance to bio-degradation due to bacterial attack in sewage tank and reservoir. Use in expansion and contraction joints on bridge decks, floor joints and construction Joints. Used on all types of commercial and residential buildings joints. Boat, yacht building, window and door frames, ducting system, especially for clean room application. Extreme bonding properties with a movement capacity of 25%.	See TDS	3 & 4 Ltr pack

Waterstops & Joint Sealants

Product Name	Description	Uses	Dosage/ Coverage	Packaging
NanoPrimer S	Low viscosity, primer for sealants	Used as a primer when preparing porous and non-porous surfaces such as concrete, brickwork, stonework, asbestos and timber prior to the installation of sealants.	3 % of sealant	1 ltr pack
NanoBitulastic C	Cold applied, single component, rubberized, bitumastic sealant.	Used to seal expansion/contraction joints in: Roofing and cladding. Water retaining structures. Basements/retaining walls. irrigation channels. Drains. Box culverts. Tunnels.		15 kg & 20 kg pail
NanoBitulastic H	Hot applied, single component, rubberized, bitumastic sealant.	Used to seal expansion/contraction joints in: Roofing and cladding. Water retaining structures. Basements/retaining walls. irrigation channels. Drains. Box culverts. Tunnels.		15 kg & 20 kg pail

Speciality Products

NanoFibre	Multifilament fibres for concrete crack and fire control science for a better concrete	Road, Flooring, Shotcrete, Segmental lining Precast products, Print concrete, Tubes, Screeds, Pavements, Sewer pipes High way safety barriers, Polished architectural panels Stucco Products and rendering	Crack control: 600-900g/m ³ Fire: resistance: 1-3kg/m ³	300 gms pack & 10 kg bag
------------------	--	--	--	--------------------------

Conversion Table

Example: to convert 10 miles to Kilometers, find 1 mile in the 'length' table. Numbers on that same horizontal are equal units to 1 mile, therefore 1 mile = 1.6094 km 10 miles = 16.094 km.

LENGTH

km	m	m m	mile	yard	ft	in	10 ³ in
1	1000	10 ⁶	0.6214	1094	3281	3.937x10 ⁴	3.937x10 ⁷
10 ³	1	1000	6.214x10 ⁻⁴	1.0936	3.281	39.370	3.937x10 ⁴
10 ⁵	10 ⁻³	1	6.214x10 ⁻⁷	1.091x10 ⁻³	3.281x10 ⁻³	3.937x10 ⁻²	39.37
1.6094	1609.4	1.609x10 ⁶	1	1760	5280	63360	6.336x10 ⁷
9.144x10 ⁴	09144	914.41	5.682x10 ⁻⁴	1	3	36	36000
3.048x10 ⁻⁴	0.3048	304.8	1.894x10 ⁻⁴	0.3333	1	12	12000
2.54x10 ⁻⁵	0.0254	25.4	1.578x10 ⁻⁵	2.778x10 ⁻²	8.333x10 ⁻²	1	1000
2.54x10 ⁶	2.54x10 ⁵	0.0254	1.578x10 ⁶	2.778x10 ⁵	8.333x10 ⁵	10 ³	1

AREA

km ²	m ²	cm ²	mm ²	sq.mile	acre	yd ²	ft ²	in ²
1	10 ⁶	10 ¹⁰	10 ¹⁰	0.38612	247.11	1.196x10 ⁶	1.076x10 ⁷	1.076x10 ⁹
10 ⁶	1	10 ¹⁰	10 ⁴	3.86x10 ⁻⁷	2.471 x10 ⁻⁴	1.1960	10.764	1550
10 ¹⁰	10 ⁻⁴	1	100	3.86x10 ⁻¹¹	2.471x10 ⁻⁹	1.16x10 ⁻⁴	1.076x10 ⁻⁵	1.1550
10 ¹²	10 ⁻⁶	102	1	3.86x10 ⁻¹³	2.47x10 ⁻¹⁰	1.196x10 ⁻⁶	1.076x10 ⁻⁵	1.550x10 ⁻³
2.590	2.59x10 ⁶	2.59x10 ¹⁰	2.59x10 ¹²	1	639.96	3.097x10 ⁶	2.788x10 ⁷	4.01x10 ⁶
4.047x10 ⁻³	4047	4.047x10 ⁷	4.047x10 ⁹	1.563x10 ⁻³	1	4840	46560	6.273x10 ⁶
8.36x10 ⁻⁷	0.8361	8361	8.36x10 ⁵	3.228x10 ⁻⁷	2.066x10 ⁻⁴	1	9	1296
9.29x10 ⁻⁹	9.25x10 ²	929	92900	3.587x10 ⁻⁹	2.296x10 ⁻⁵	0.1111	1	144
6.45x10 ⁻¹⁰	6.45x10 ⁴	6.4516	645.16	2.491x10 ⁻¹⁰	1.594x10 ⁻⁷	7.716x10 ⁻⁴	6.944x10 ⁻³	1

VOLUME

m ³	dm ³ (liter)	cm ³ (ml)	yd ³	ft ³	in ³	UK gallon	US gallon
1	10 ³	10 ⁶	1.3079	35.311	6102	219.97	264.17
10 ³	1	10 ³	1.308x10 ⁻³	3.531x10 ⁻²	61.02	0.2200	0.2642
10 ⁶	10 ⁻³	1	1.3081x10 ⁻⁶	3.531x10 ⁻⁵	6.102x10 ⁻²	2.199x10 ⁻⁴	6.336x10 ⁻⁴
0.7646	764.6	7.646x10 ⁵	1	27	46650	168.19	201.99
2.832x10 ²	28.32	7.646x10 ⁻⁴	3.704x10 ⁻²	1	1728	6.229	7.481
1.639x10 ⁵	1.639x10 ²	76x387	2.144x10 ⁻⁵	5.787x10 ⁻⁴	1	3.605x10 ⁻³	4.329x10 ⁻³
4.546x10 ⁻³	4.546	4.546x10 ³	2.946x10 ⁻³	0.1605	277.42	1	1.2008
3.785x10 ³	3.785	3.785x10 ³	4.951x10 ⁻³	0.1337	231	0.8327	1

Conversion Table

Example: to convert 10 miles to Kilometers, find 1 mile in the 'length' table. Numbers on that same horizontal are equal units to 1 mile, therefore 1 mile = 1.6094 km 10 miles = 16.094 km.

MASS

Tonne (Mg)	kg	g	UK ton	US ton	c w t	ib	O Z
1	1000	10 ⁶	0.9842	1.1011	19.66	2.205x10 ³	3.527x10 ⁴
10 ³	1	1000	9.842x10 ⁻⁴	1.101x10 ⁻³	1.966x10 ⁻²	2.2046	35.274
10 ⁶	10 ³	1	9.842x10 ⁻⁷	3.531x10 ⁻⁶	1.966x10 ⁻⁵	2.204x10 ⁻³	6.336x10 ⁻²
1.016	1016	1.016x10 ⁶	1	112	20	2240	35840
0.9081	908.1	9.081x10 ⁵	0.8928	1	17856	2000	32000
5.085x10 ⁻²	50.85	5.085x10 ⁴	0.05	0.0560	1	112	1792
4.536x10 ⁻⁴	0.4536	453.6	4.46x10 ⁻⁴	5x10 ⁻⁴	8.92x10 ⁻³	1	16
2.835x10 ⁻⁵	2.835x10 ⁻²	28.349	2.79x10 ⁻⁵	3.125x10 ⁻⁵	5.580x10 ⁻⁴	6.25x10 ⁻²	1

FORCE AND WIGHT

MN	kN	N	Kg f	t o n f	lbf
1	1000	106	1.0196x10 ⁵	100.4	2.248x10 ⁻⁵
10 ⁻³	1	103	101x96	0.1004	224.82
10 ⁻⁶	10 ⁻³	1	0.10196	1.004x10 ⁻⁴	0.2248
9.807x10 ⁻⁶	9.807x10 ⁻³	9.807	1	9.842x10 ⁻⁴	2.2048
9.964x10 ⁻³	9.964	9964	1016	1	2240
4.448x10 ⁻⁶	4.448x10 ⁻³	4.448	0.45455	4.464x10 ⁻⁴	1

VISCOSITY, DYNAMIC

1 Pas (NS/M ²)	0.0208854 lbf s/ft ²
1 cp (centipoise)	2.08854x10 ⁻⁵ lbfs/ ft ²
	0.001 Pass
1 lbf s/ft ²	478803 Pass
1 lbf s/fts	1488.16 cP
	1.48816 kg/ms

VISCOSITY, KINEMATIC

1 m ² /s	10.7639 ft ² /s
1 cSt (Centistokes)	5.58001 in ² /h
	1mm ² /s
	10 ⁻⁶ m ² /s
1 ft ² /4	0.092903 m ² /4
1 in ² /s	645.16 mm ² /s

ENERGY

1 MJ	0.277778 kWh
1 J	0.737562 ft lbfs
1 kgfm	9.80665 J
	7.23301 ft lbf
1 therm	105.506 MJ
1 kWh	3.6 MJ
1 Btu (British thermal unit)	1.05506 kJ

DISCHARGE

ft ³ /S	2.832x10 ² m ³ /s
ft ² /S	2.832x10 l/s
U.S. gal/min	6.309x10 ⁻³ m ³ /s
U.S. gal/min	6.309x10 ⁻² l/s
U.S. gal/min	7.576x10 ⁻⁵ m ³ /s
U.S. gal/min	7.576x10 ⁻⁴ l/s



Nano Vision (Pvt.) Limited

Head Office

79-D, Commercial, DHA EME Sector,
Multan Road, Lahore-Pakistan

☎ +92 42 35234577 ☎ +92 333 4925733

✉ info@nanovision.com.pk

Factory

18-km, Multan Road, Lahore-Pakistan

☎ +92 321 4925722

✉ factory@nanovision.com.pk

Branch Office

Plot No. 81-B, Sector G/6, Mehran Town,
Korangi Industrial Area, Karachi-Pakistan

☎ +92 333 4925735

✉ khi@nanovision.com.pk

