

Sika Worldwide



Sika - Your Local Partner with a Global Presence

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This is a small but essential selection of the full Sika product range.
For more information visit our website: www.sika.co.uk

FRONT COVER PHOTOGRAPH

Project: Institute of Manufacture, Cambridge

PHOTO ABOVE

Project: Crystal Rigg Wind Farm, Dunbar



Mould Release Agents

Formwork Treatment

Separol® W

Description

Separol® W is a ready to use solvent and mineral oil free concrete release agent. It is an emulsion based on biological degradable synthetic oil.



Uses

- Provides protection to formwork used for concrete casting.

Advantages

- Easy to use.
- Reduces cleaning.
- Extends service life of formwork.
- Bio-degradeable.
- Provides concrete with a high quality surface finish.

Application Overview

Formwork surfaces should be clean, dry and free from surface contaminants.

- 1 Separol® should be applied with a spray gun with an operating pressure of 3-6 bar and a flat spraying nozzle.
- 2 Apply in thin layers with a fine, white dotted appearance covering the entire surface.
- 3 After application leave for at least 20 minutes prior to casting concrete.

For full preparation and application details reference must be made to the most current product and material safety data sheets before use.

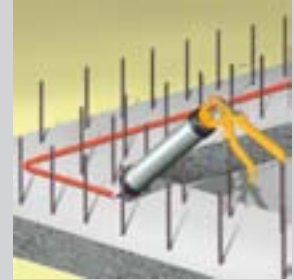
Watertight Construction Joint Systems

Light Duty

SikaSwell® S-2 Adhesive/Sealant

Description

SikaSwell® S-2 is a gun applied hydrophilic adhesive/sealant for watertight construction joints, pipe entries and other penetrations through concrete.



Uses

- SikaSwell® S-2 is used to fix SikaSwell® P Profiles and Sika® Injectoflex®. SikaSwell® S-2 is also used on its own as a hydrophilic swellable sealant that is very easy and flexible to use around details with uneven surfaces on light duty structures.
- Not suitable for movement joints*.

Advantages

- Swells in contact with water.
- Fast application.
- Very easy to use around complicated details.
- Good adhesion to dry and damp substrates.
- Foil sausage packaging (minimal waste).

Application Overview

All surfaces should be clean, dry and free from surface contaminants.

- 1 Prepare the concrete surface.
- 2 Cut sausage and place in a standard bulk sealant gun with nozzle cut to desired V shape and size.
- 3 Apply SikaSwell® S-2 to seal around the pipe/penetration.
- 4 Ensure a minimum concrete cover of more than 75mm (reinforced concrete) and 150mm (non reinforced concrete).

* Use Sikadur® Combiflex®

For full preparation and application details reference must be made to the most current product and material safety data sheets before use.

Refer to www.sika.co.uk for standard CAD details.

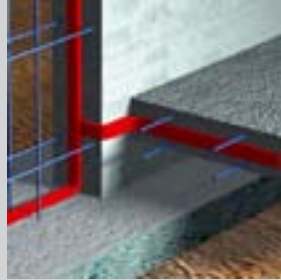
Watertight Construction Joint Systems

Medium Duty

SikaSwell® P Profiles

Description

SikaSwell® P Profiles are simple preformed hydrophilic strips for construction joints which swell in contact with water to seal the joint.



Uses

- Construction joint protection in watertight structures.
- Not suitable for movement joints*.

Advantages

- Easily applied to vertical and horizontal construction joints.
- Fast, simple and easy application.
- Swells in contact with water.
- Suitable for penetrations and pipe entries.
- To be fixed onto concrete, steel with SikaSwell® S-2 hydrophilic adhesive/sealant.

Application Overview

All surfaces should be clean, dry and free from surface contaminants.

- 1 Prepare the concrete surfaces.
- 2 Apply SikaSwell® S-2 in a continuous bead to receive SikaSwell® P Profile.
- 3 Press SikaSwell® P Profile into the SikaSwell® S-2 adhesive/sealant.
- 4 Allow at least 3 hours to set before concreting.
- 5 Ensure a minimum concrete cover of more than 75mm (reinforced concrete) and 150mm (non reinforced concrete).

* Use Sikadur® Combiflex®

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Refer to www.sika.co.uk for standard CAD details.

Watertight Construction Joint Systems

Heavy Duty

Injectoflex® DI-1

Description

Injectoflex® DI-1 is a re-injectable channel for construction joint sealing. It offers two lines of defence - hydrophilic and injection.



Uses

- Construction joint protection in watertight structures.
- Not suitable for movement joints*.

Advantages

- Easily applied to vertical and horizontal construction joints.
- Injectable and re-injectable at any time after construction.
- Swells in contact with water.
- No welding of joints required.
- To be fixed onto concrete, steel with SikaSwell® S-2 hydrophilic adhesive/sealant.

Application Overview

All surfaces should be clean, dry and free from surface contaminants.

- 1 Prepare the concrete surfaces.
- 2 Apply SikaSwell® S-2 in a continuous bead to receive Injectoflex®.
- 3 Press Injectoflex® into the SikaSwell® S-2 adhesive/sealant.
- 4 Allow at least 3 hours to set before concreting.
- 5 Ensure a minimum concrete cover of more than 75mm (reinforced concrete) and 150mm (non reinforced concrete).

* Use Sikadur® Combiflex®

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Tie Bar Hole Protection

Tie Bar Hole Stoppers

Sika® Tie Bar Stoppers

Description

Sika® Tie Bar Stoppers are used to seal tie bar holes against water ingress. They are to be used in conjunction with Sikadur® 31.



Uses

- Formwork hole tie bar sealing.
- To be used in conjunction with Sikadur® 31.

Advantages

- Fast, simple and easy application.
- Seals tie bar holes.

Application Overview

All surfaces should be clean, dry and free from surface contaminants.

- 1 Remove tie bar from formwork.
- 2 Insert Sika® Tie Bar Stopper into existing hole.
- 3 Seal tie bar hole with Sikadur® 31.

For full preparation and application details reference must be made to the most current product and material safety data sheets before use.

Refer to www.sika.co.uk for standard CAD details.

Concrete Curing Agents

Liquid Applied

Sikafloor® ProSeal

Sikafloor® ProSeal W

Description

Sikafloor® ProSeal is a clear solvented acrylic resin based curing, hardening and sealing solution.

Sikafloor® ProSeal W is a clear water dispersed acrylic resin based curing, hardening and sealing solution.



Uses

- Sikafloor® ProSeal and Sikafloor® ProSeal W are used as curing membranes on fresh concrete for surface hardening and dustproofing (Sikafloor® ProSeal W should not be used on metallic dry shake surfaces). They can also be used for sealing and dustproofing hardened concrete.

Advantages

- Easy to use and apply.
- Excellent moisture retention.
- Sikafloor® ProSeal = 75% curing efficiency.
- Sikafloor® ProSeal W = 61% curing efficiency.
- Cures, seals and protects.

Application Overview

Easily applied by hand or spray. For optimum visual appearance a second coat may be required (allow 2-6 hours between coats). Sikafloor® ProSeal and Sikafloor® ProSeal W can be applied to fresh concrete immediately after final power floating / finishing. Ensure there is no free standing water on the surface. Apply directly to hardened concrete provided the surface is clean and free of contaminants.

- 1 Place concrete.
- 2 Powerfloat / finish the concrete surface.
- 3 Apply Sikafloor® ProSeal or Sikafloor® ProSeal W at a rate of 5-10 m²/litre by low pressure spray or roller as a uniform coating.

For full preparation and application details reference must be made to the most current product and material safety data sheets before use.

Epoxy Resins

Bonding, Sealing and Crack Repair

Sikadur® 31

Sikadur® 32

Sikadur® 52

Description

Sikadur® 31 is a 2-component, solvent free, cold cure epoxy adhesive.

Sikadur® 32 is a 2-component, solvent free, cold cured epoxy bonding agent.

Sikadur® 52 is a 2-component, low viscosity resin specifically formulated for crack injection.



Uses

- Sikadur® 31 can be used to bond all types of construction materials. It is used in conjunction with Sika® Tie Bar Stoppers as part of the Sika® Watertight Concrete system to seal tie bar holes and can also be used as a crack and surface sealer for crack repairs where the crack width is in the range of 10 -15mm.
- Sikadur® 32 can be used to bond all types of construction materials as a bonding bridge.
- Sikadur® 52 can be gravity fed (poured) into cracks in horizontal components. It fills and seals cavities and cracks (0.2 – 5mm) in building and civil engineering structural components, including where the prevention of water ingress is needed.

Advantages

- Easy to use.
- Excellent bond.
- Good mechanical properties.
- Water resistance.
- Non-shrink.

For preparation and application details reference must be made to the most current product and material safety data sheets before use.

Concrete Protection

Epoxy Coating

Inertol® Poxitar® F

Description

Inertol® Poxitar® F is a 2-component epoxy combination protective coating, which is particularly suitable for both concrete and steel surfaces.



Uses

- Heavy duty concrete protection in severe environments where there is attack from contaminated ground water, sewage, or sea water.

Advantages

- Very high chemical resistance.
- Good abrasion and impact resistance.
- Suitable for permanent immersion in aggressive ground water, sea water and sewage.
- Suitable for application on both dry and damp concrete or steel.

Application Overview

The concrete surface must be clean, free from laitance, loose particles, and any contaminants. Steel surfaces must be clean and blast cleaned if for permanent immersion. The surfaces must be dry or damp but without any standing water.

- 1 Mechanically mix component A and add to component B, then mix thoroughly until a uniform consistency is obtained.
- 2 Apply 2 coats by brush or airless spray at 5–6m²/kg/coat.

For full preparation and application details reference must be made to the most current product and material safety data sheets before use.

Joint Sealants

One Component Polyurethane Sealants

Sikaflex®-PRO 2HP Sikaflex®-PRO 3WF Sikaflex®-AT Connection

Description

Sikaflex® is a range of one part polyurethane sealants supplied in foil sausages for most joint sealing applications.



Uses

- Sikaflex®-PRO 2HP – high performance joint sealant for most movement joint applications.
- Sikaflex®-PRO 3WF – high performance sealant designed for horizontal and floor applications.
- Sikaflex®-AT Connection - high performance sealant for all kinds of connection joints.

Advantages

- One component – no mixing.
- Foil sausage packing (minimal waste).
- Fast, simple and easy application.
- Suitable for dry and damp substrates.

Application Overview

All surfaces should be clean, dry and free from surface contaminants.

- 1 Insert backing rod.
- 2 Mask joint.
- 3 Cut cartridge and place in a standard sealant gun.
- 4 Cut nozzle to desired shape and size.
- 5 Apply Sikaflex® ensuring good continuous contact with the substrate.
- 6 For best results Sikaflex® should be tooled to a smooth finish where exposed.

For full preparation and application details reference must be made to the most current product and material safety data sheets before use.

Grouting, Fixing and Anchoring

Epoxy Grout

Sikadur® 42

Description

Sikadur® 42 is a 3-component high strength pourable Epoxy Grout.



Uses

- Sikadur® 42 can be used to grout under baseplates handrails, vehicular restraint barriers and machine bases.
- Sikadur® 42 can be used to grout and structurally bond dowels, bars, anchors and bolts.

Advantages

- Solvent free and easy to apply.
- Non-shrink.
- Can be used on dry or damp substrates.
- High mechanical strengths.
- Good chemical resistance.

Application Overview

All surfaces should be clean, dry and free from surface contaminants.

- 1 All surface areas must be prepared to remove all paint coatings, rust, cement laitance and other contaminants to leave a dust free sandpaper like open textured surface.
- 2 Mechanically mix component B into component A until a uniform consistency is obtained.
- 3 Add component C and repeat the mixing process.
- 4 Pour the grout into the prepared area.

For full preparation and application details reference must be made to the most current product and material safety data sheets before use.

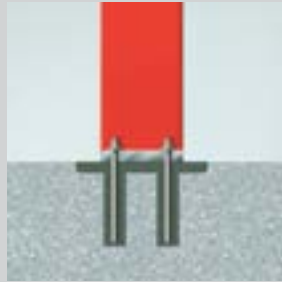
Grouting, Fixing and Anchoring Cementitious Grout

Sika® Armorex L2 High Flow Grout SikaGrout® 212

Description

Sika® Armorex L2 High Flow is a high strength multi purpose cementitious grout with exceptional flow properties.

SikaGrout® 212 is a multi purpose pre- batched shrinkage compensated grout.



Uses

- General purpose construction grouting.
- Under machine base plates.
- Void filling.
- Exterior and interior use.

Advantages

- Excellent flow properties.
- Just add water.
- High strength.
- Easy to mix and apply.
- Excellent bond to concrete.

Application Overview

All surfaces should be clean, dry and free from surface contaminants.

- 1 Thoroughly soak concrete substrate with water.
- 2 Mechanically mix Sika® cementitious grouts in a mechanical forced action mixer until a uniform consistency is obtained.
- 3 Pour the grout into the prepared opening.

For full preparation and application details reference must be made to the most current product and material safety data sheets before use.

Grouting, Fixing and Anchoring Chemical Anchoring

Sika® AnchorFix®-1 Sika® AnchorFix®-2

Description

Sika® AnchorFix®-1 is a styrene free polyester based fast curing adhesive for general purpose use.

Sika® AnchorFix®-2 is a styrene free epoxy based fast curing adhesive for high performance structural applications.



Uses

- Sika® AnchorFix® are chemical anchoring adhesives for steel bars, threaded steel rods, wall ties and bolts into concrete.

Advantages

- Fast, simple and easy application.
- Suitable for overhead and vertical applications.
- Fast curing (<1 hour @ 20°C, ~ 2.5 hours at 10°C).
- Can be used from -10°C to +40°C.
- Low odour, styrene free.

Application Overview

All surfaces should be clean, dry and free from surface contaminants.

- 1 Drill hole to size and depth required.
- 2 Thoroughly clean the hole.
- 3 Unscrew cap, pull out red plug, cut liner below the plug, attach the static mixer to the cartridge and insert into the sealant gun.
- 4 Gun until a uniform grey (discard unmixed material) and inject slowly from the rear of the hole.
- 5 Insert steel bar/bolt whilst twisting slightly and allow to cure.

For full preparation and application details reference must be made to the most current product and material safety data sheets before use.

Elastic Bonding

One Component Polyurethane Adhesives

Sikaflex®-EBT

Description

Sikaflex®-EBT is a 1-component polyurethane, gun grade, adhesive and filler



Uses

- Sikaflex®-EBT has numerous uses on every site during construction and finishing works.

Advantages

- One component – no mixing.
- Foil sausage packing (minimal waste).
- Fast, simple and easy application.
- Suitable for dry and damp substrates.

Application Overview

All surfaces should be clean, dry and free from surface contaminants.

- 1 Cut cartridge and place in a standard sealant gun.
- 2 Cut nozzle to desired shape and size.
- 3 Apply Sikaflex® ensuring good continuous contact with the substrate.
- 4 For best results Sikaflex® should be tooled to a smooth finish where exposed.

For full preparation and application details reference must be made to the most current product and material safety data sheets before use.

Rigid Bonding

Epoxy Adhesive

Sikadur® 31

Description

Sikadur® 31 is a 2-component, cold cure, epoxy adhesive.



Uses

- Sikadur® 31 can be used to bond all types of construction materials.

Advantages

- Easy to use.
- Excellent bond.
- Good mechanical properties.
- Water resistance.
- Non-shrink.

Application Overview

All surfaces should be clean, dry and free from surface contaminants.

- 1 All surface areas must be prepared to remove all paint coatings, rust, cement laitance and other contaminants to leave a dust free sandpaper like open textured surface.
- 2 Mechanically mix component B into component A until a uniform consistency is obtained.
- 3 Apply with a trowel or stiff brush. Work well into substrate.
- 4 Bond surfaces together while Sikadur® 31 is still “tacky”.

For full preparation and application details reference must be made to the most current product and material safety data sheets before use.

Concrete Repair

Cementitious Mortars

SikaTop®-121 SikaTop®-122

Description

SikaTop®-121 and SikaTop®-122 are 2-component polymer modified cementitious waterproof mortars.



Uses

- SikaTop®-121 can be used for internal waterproofing of concrete or as a bonding primer for SikaTop®-122 mortar.
- Fine crack and blow hole repairs.
- SikaTop®-122 can be used for repairing all types of concrete.
- High strength repairs.
- Exterior and interior use.

Advantages

- Pre-batched for consistent quality.
- Fast and easy to apply.
- No water required.
- Approved for contact with potable water.

For preparation and application details reference must be made to the most current product and material safety data sheets before use.

Waterstopping

Liquid Leak Stopper

Sika®-4a

Description

Sika®-4a is a ready to use quick setting leak stopping liquid which is mixed with cement (CEM I) to produce a paste for leak stopping against water infiltration.



Uses

- Sika®-4a is used throughout civil engineering and building construction works to seal against water infiltration in concrete, rock and masonry.

Advantages

- Supplied ready to use.
- Just add cement (CEM I).
- Proven worldwide.
- Does not contain chlorides.
- Rapid set in approximately 15-45 seconds.

Application Overview

- 1 Sika®-4a is diluted 1:1 – 1:4 with clean water (dependent on set time required).
- 2 Place a small quantity in a mixing container and add cement (CEM I) and quickly mix to a paste.
- 3 Quickly apply with a gloved hand.
- 4 Clean tools immediately with clean water.

For full preparation and application details reference must be made to the most current product and material safety data sheets before use.