

Sika® Technologies for Seismic Upgrading and Supporting Earthquake Recovery



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Engineering Assessment

No Damage

Retrofitting

Problems

- Increased loading
- Inadequate design or construction
- Strengthening against potentially increased shear forces
- Strengthening to meet current design standards for seismic action
- General refurbishment and seismic upgrade

Sika Solutions

Anchoring

Bonding steel anchors and additional reinforcement with Sika AnchorFix® – and Sikadur® range of structural bonding systems

Stiffenin

- Sika® spray applied concrete systems
- Installation of infill panels or **Sikadur**® resin bonded steel bracings

Strengthening

- Structural strengthening with Sika® CarboDur® plates, Sika® CarboShear L® plates and SikaWrap® fabrics
- Increased ductility with Sika® CarboDur® plates, Sika® CarboShear L® plates and SikaWrap® fabrics
- Prestressed Sika® CarboDur® systems



Minor Damage

Repair

Problems

- Spalling concrete
- Cracks in concrete, infill walls and masonry

Sika Solutions

Spalling Concrete

Repair and corrosion protection of steel in areas of damaged concrete with Sika® MonoTop® hand or spray applied repair mortars

Surface Finishing

Surface restoration, reprofiling and aesthetic improvement with Sika® MonoTop® levelling and reprofiling mortars plus Sikagard® protective coatings

Crack Injection

- Sika® cementitious injection systems for the stabilization of brick walls and masonry
- Sealing of cracks in concrete with the Sikadur® range of structural resin injection systems



Structural Damage

Strengthening

Problems

- Cracks in concrete and masonry walls
- Unacceptable deflections
- Steel yielding
- Local reinforcement buckling

Sika Solutions

Crack Injection

Structural bonding and sealing of cracked concrete and masonry with the **Sikadur**® range of structural resin injection systems

Anchoring

Bonding steel anchors and additional reinforcement with the Sika AnchorFix® and Sikadur® ranges of structural resin bonding systems

Stiffening

- Sika® spray applied concrete systems
- Installation of infill panels with Sikadur® resin bonded steel bracings

Strengthening

- Structural strengthening with Sika® CarboDur® plates, Sika® CarboShear L® plates and SikaWrap® fabrics
- Increased ductility with Sika® CarboDur® plates,
 Sika® CarboShear L® plates and SikaWrap® fabrics
- Prestressed Sika® CarboDur® systems



Excessive Damage

Demolition/New Construction

Problems

Excessive structural damage

Sika Solutions

- Concrete technology (Sika® ViscoCrete®)
- Grouting/anchoring technology
- (SikaGrout®, Sika AnchorFix®)
- Waterproofing systems (Sikaplan®, Sika® Waterbars)
- Sealing and bonding technology

(Sikaflex®, SikaBond®, Sikadur®)

- Flooring systems (Sikafloor®)
- Roofing systems (Sikaplan®, Trocal®, Carisma®)
- Segmental bridge adhesives
- (Sika® CableGrout, Sikadur® SBA)
- Steel corrosion (Icosit*, Sika* FerroGard*)
- Application equipment (Aliva®)







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Sika - Your Local Partner with a Global Presence

Sika is a multinational company in the speciality and construction chemicals business. It has subsidiary manufacturing, sales and technical support facilities in over 70 countries around the world. Sika is THE global market and technology leader in waterproofing, sealing, bonding, damping, strengthening and protection of buildings and civil engineering structures.

Sika has more than 9'200 employees in these subsidiary companies' facilities that are therefore ideally positioned to support the success of our partners – both our suppliers and our customers.



Also available from Sika





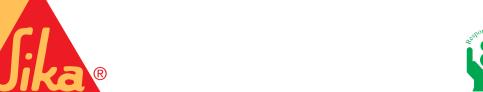






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