

WACKER **SILICONES**

GENIOSIL[®] N SERIES STP-E HYBRID SYSTEMS ADHESIVES & SEALANTS

CREATING TOMORROW'S SOLUTIONS

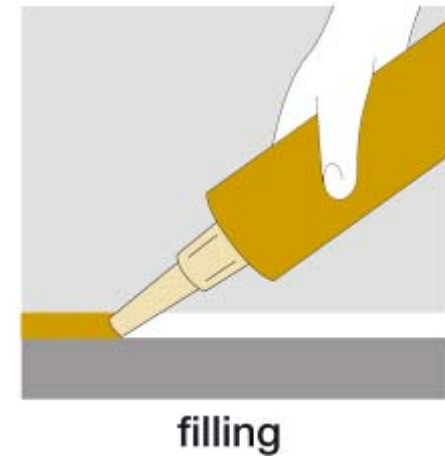
OUTLINE

- Why the GENIOSIL[®] N series ?
- The Adhesives & Sealants world today
 - Limitations with existing systems
- What differentiates the GENIOSIL[®] N series ?
 - In the application
 - For the craftsman
 - For the supplier
- Which grades ?
- Characteristics of the GENIOSIL[®] N series
- Application overview – at a glance
- Property profiles – at a glance

WHY THE GENIOSIL® N SERIES ?

DISSIMILAR MATERIALS EVER MORE BONDED, SEALED, FILLED

- Everywhere we find bonding, sealing & filling
 - Products must be fast & easy to tool
 - Products must be “green” and non-toxic
 - Products must bond and seal dissimilar materials



WHY THE GENIOSIL® N SERIES ?

*DISSIMILAR MATERIALS EVER MORE BONDED, SEALED,
FILLED*

But aren't there many other systems already around ?

Yes, but many have certain limiting properties

WHY THE GENIOSIL® N SERIES ?

DISSIMILAR MATERIALS EVER MORE BONDED, SEALED, FILLED

POLYURETHANES

- Health hazard
- Regional limitations
- Difficult to correct
- Problematic adhesion (non-porous substrates)
- Stability problems
- Bubbling (CO₂)
- Special cartridges

OTHER HYBRIDS

- Slow cure unless high tin loading
- Limitation in some mechanics

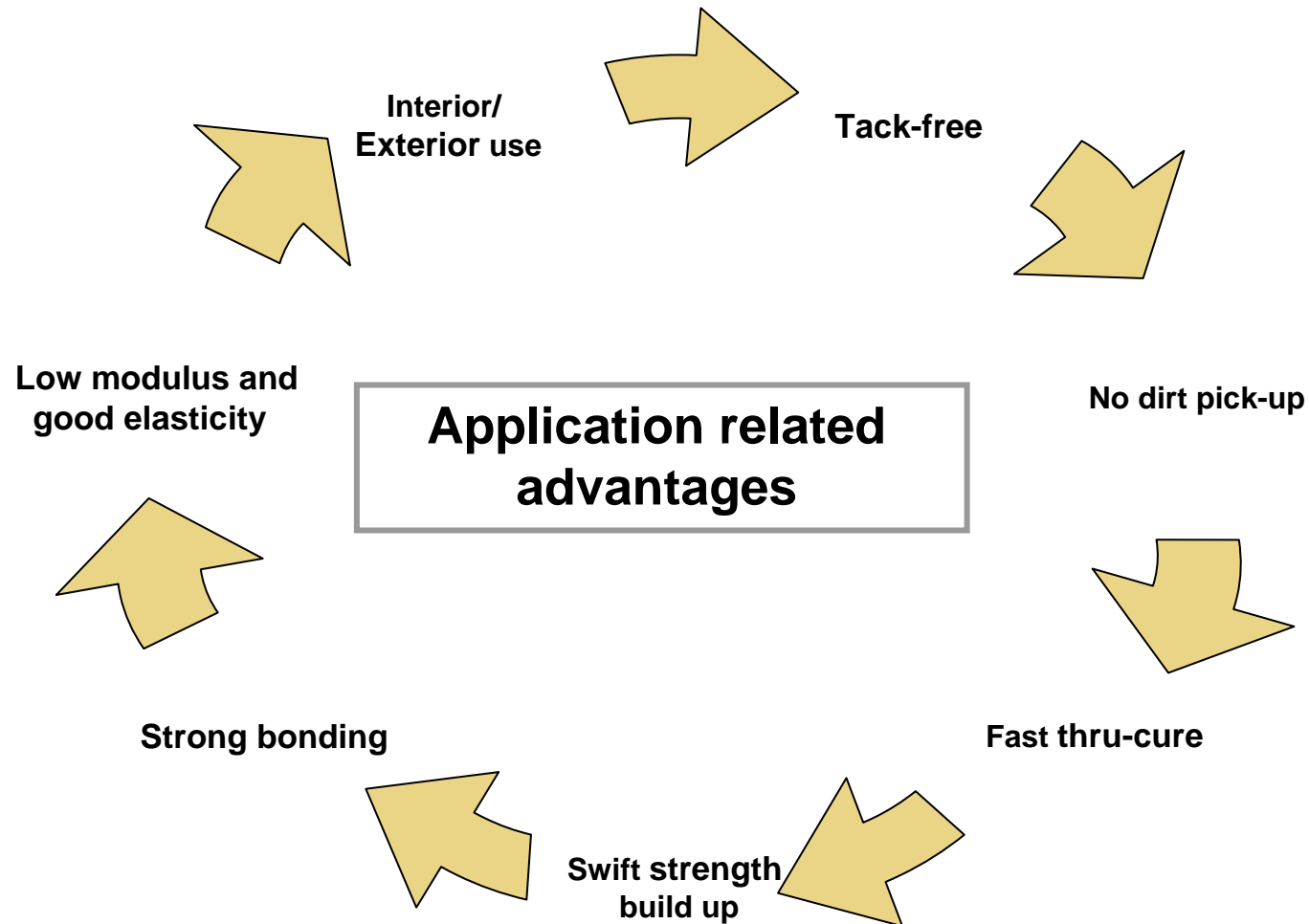
SILICONES (STANDARDS)

- Not paintable
- Staining

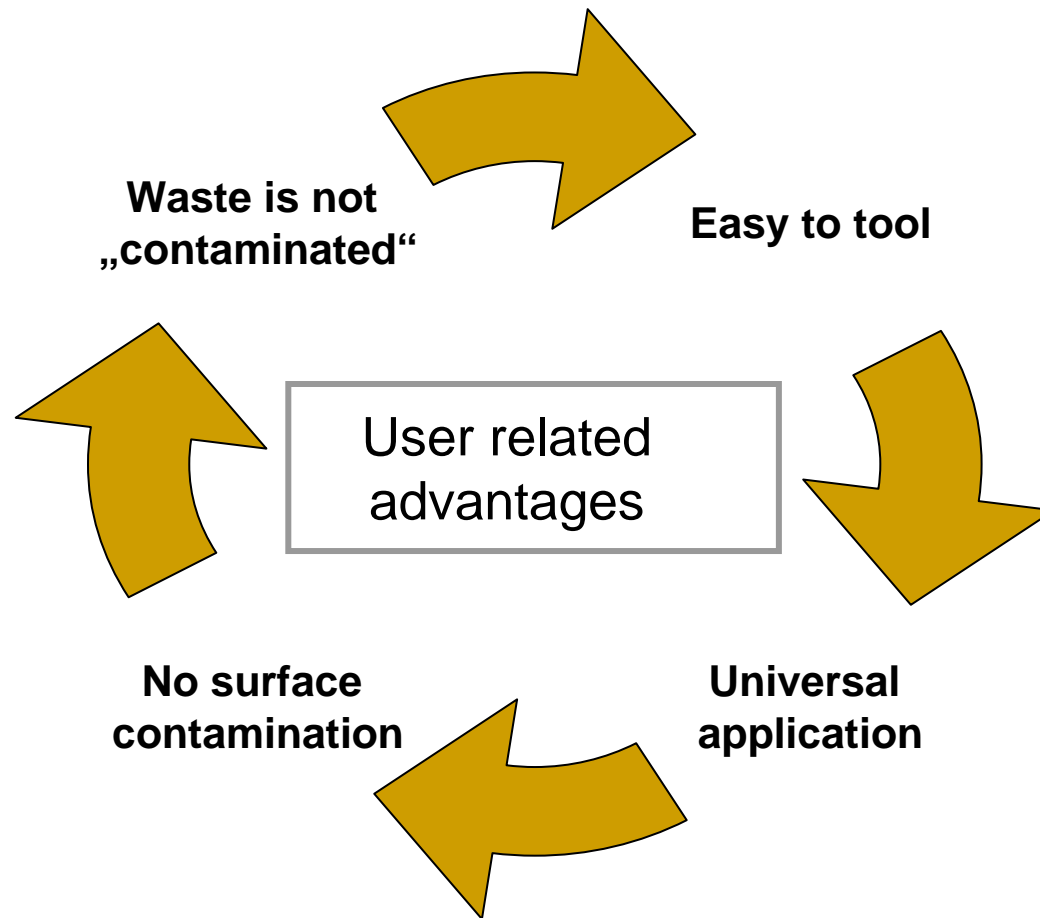
ACRYLICS (WB)

- Shrinkage
- Limitation in mechanical properties

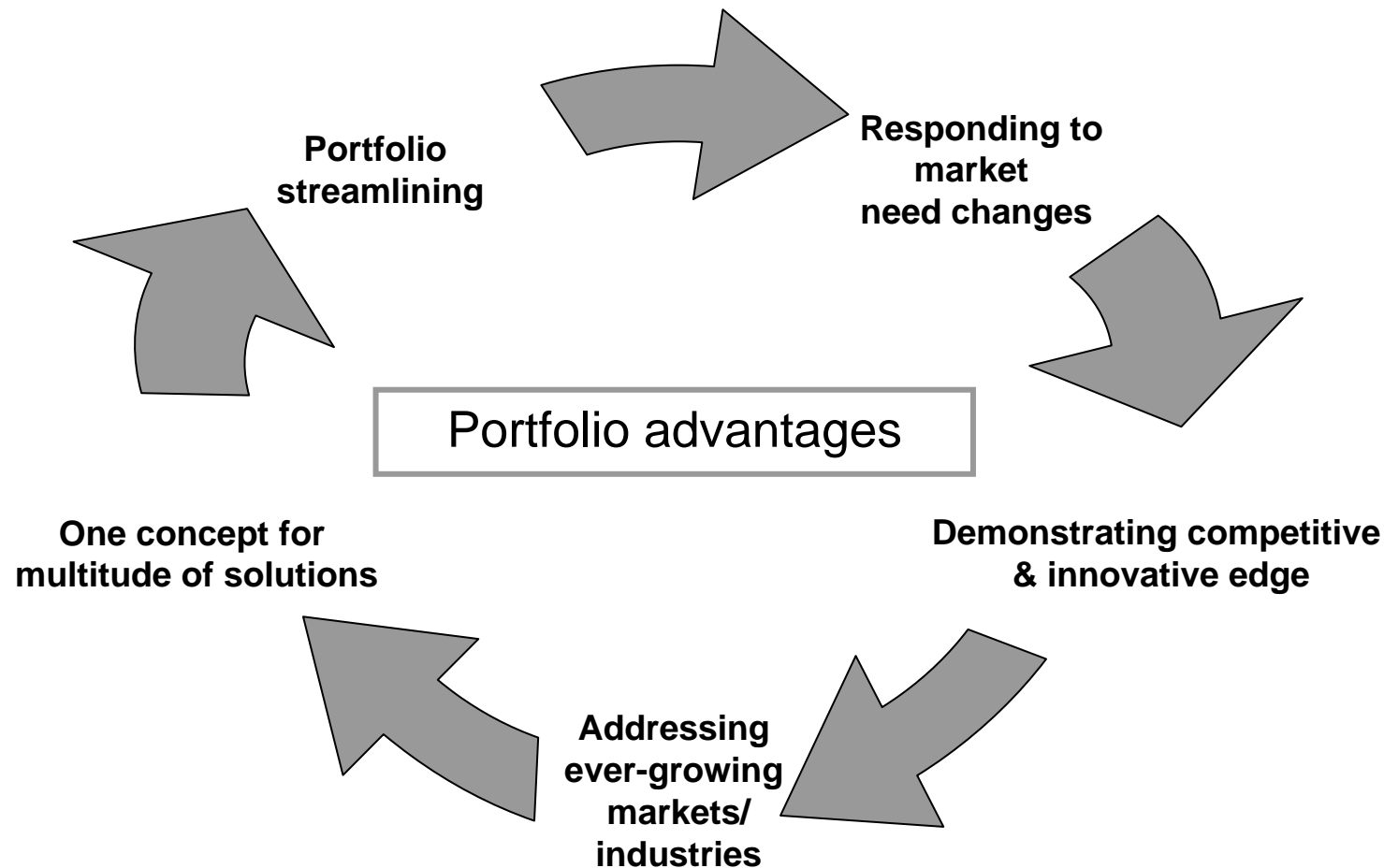
WHAT DIFFERENTIATES THE GENIOSIL® N SERIES ? *WHAT'S SO SPECIAL IN THE APPLICATION ?*



WHAT DIFFERENTIATES THE GENIOSIL® N SERIES ? *WHAT'S IN IT FOR THE CRAFTSMAN / PROFESSIONAL ?*

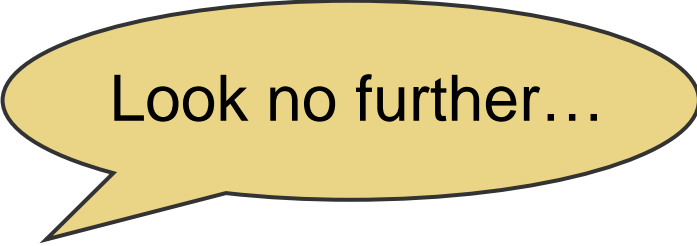


WHAT DIFFERENTIATES THE GENIOSIL[®] N SERIES ? *WHAT'S IN IT FOR THE SUPPLIER ?*



AND SO TO THE GENIOSIL[®] N SERIES.....

- If you are seeking systems that combine all these characteristics



Look no further...

WHICH GRADES ?

GENIOSIL® N25 ➤ CONSTRUCTION SEALANT

GENIOSIL® N35 ➤ UNIVERSAL SEALANT

GENIOSIL® N45 ➤ INDUSTRIAL APPLICATIONS

GENIOSIL® N70 ➤ UNIVERSAL ADHESIVE

GENIOSIL® N35C ➤ TRANSPARENT SYSTEM

CHARACTERISTICS OF THE GENIOSIL® N SERIES

GENIOSIL® N25

Low modulus hybrid sealant

Meets ISO 11600 – G - Class 25 LM

Meets ISO 11600 – F - Class 25 LM

Specifically formulated to

- Contain no phthalates – no unobtrusive odor
- Contain no dibutyl tin compounds
- **Suitable for**
 - Façade bonding & sealing, connection & expansion joints
 - Where swift cure, no dirt pick-up, no residual tack desirable



connection joints



sealing

CHARACTERISTICS OF THE GENIOSIL[®] N SERIES

GENIOSIL[®] N35

High modulus hybrid sealant

Specifically formulated to

- Contain no phthalates
- Contain no dibutyl tin compounds
- **Suitable where**
 - Elasticity, yet strength build-up are desirable
 - Swift cure is essential
 - Universal bonding, sealing & filling are required



universal sealing



gap filling



perimeter sealing

CHARACTERISTICS OF THE GENIOSIL® N SERIES

GENIOSIL® N45

Medium modulus hybrid adhesive / sealant

- **Specifically formulated to**

- Catalyze entirely tin-free
- Be free of phthalates

- **Suitable where**

- Bonding, filling & sealing are sought
- Assembly of dissimilar substrates is paramount
- Fast strength build-up & speed of cure are essential



bonding



industrial assembly



BTR assembly

CHARACTERISTICS OF THE GENIOSIL[®] N SERIES

GENIOSIL[®] N70

High modulus hybrid adhesive

- **Specifically formulated to**
 - Catalyze entirely tin-free
 - Be entirely plasticizer-free
- **Suitable where**
 - A universal adhesive is sought : bonding dissimilar substrates
 - High strength build-up is essential
 - Strong bonding desirable, yet elasticity essential
 - Outstanding initial tack is required



wood bonding



universal adhesive

CHARACTERISTICS OF THE GENIOSIL® N SERIES

GENIOSIL® N35C

Low modulus crystal clear hybrid sealant / adhesive

- **Specifically formulated to**
 - Retain crystal clarity with no yellowing
 - Be free of phthalates
 - Be ecologically acceptable – no dibutyl tin compounds
- **Suitable where**
 - Transparent bonding is sought
 - Universal assembly is required



transparent sealing

WACKER GENIOSIL® N RANGE

APPLICATION OVERVIEW – AT A GLANCE

Application	GENIOSIL® N25	GENIOSIL® N35	GENIOSIL® N45	GENIOSIL® N70	GENIOSIL® N35C
Industrial		✓	✓		
DIY				✓	✓
Metal construction		✓	✓	✓	
Panel bonding		✓		✓	
Metal bonding			✓		
Wood bonding			✓	✓	
Mirror mounting			✓	✓	✓
Connection joints	✓	✓			
Expansion joints	✓	✓			
Perimeter sealing	✓	✓			✓
Joint sealing	✓				
Window sealing	✓				

WACKER GENIOSIL® N RANGE

PROPERTY PROFILE – AT A GLANCE

	GENIOSIL® N25	GENIOSIL® N35	GENIOSIL® N45	GENIOSIL® N70	GENIOSIL® N35C
Properties	low-modulus sealant	high-modulus sealant	general purpose elast. adhesive	strong bonding plasticizer-free	transparent sealant & adhesive
Colour	white	white	white	white	transparent
Density (g/cm³) ISO 1183-1	1.2	1.4	1.5	1.6	1.0
Skin Formation Time (min) 23°C / 50% rh	40	30	40	50	40
Tensile Strength (N/mm²) ISO 37-rod1	1.3	1.9	1.7	2.9	1.6
Elongation at break (%) ISO 37-rod1	550	560	350	200	300
Tear Strength (N/mm) ISO 34-C	5	12	9	14	5
100%-Modulus (N/mm²) ISO 37-rod1	0.4	0.7	1.1	2.4	0.6
Shore A hardness ISO 868	25	35	50	70	30

THANK-YOU FOR YOUR INTEREST